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Morristown,

"GARDEN and FARM"

Incorporated with Green's Fruit
Grower, May 15th, 1902.

GREEN'S



Twenty-fourth Year.—No. 3.

ROCHESTER, N. Y., MARCH, 1904.

Monthly, 50 Cents a Year.

Our HEALTH DEPARTMENT

Editorial Health Notes.

Old Folks and Health.—A subscriber to Green's Fruit Grower asks us to tell what old people should do in order to retain good health. Our advice is that they become interested in some particular work. Nothing prolongs life more than interest in living and in some live pursuit which exercises not only the body but the mind. Gardening or the growing of small fruit is an attractive occupation for old people, calling them out into the fresh air and sunshine, giving them exercise all of which is just what old people need. If old people have no work of this kind that is possible, they should walk every day beginning with moderate distances, increasing the distance gradually as their strength increases. They will be surprised to find how far they can walk after repeated experiments. They should practice inhaling deep breaths, particularly when outdoors, and drinking an abundance of pure fresh drawn water, particularly in the morning the first thing on rising from bed, and at night just before retiring, with a glass or two at 10 o'clock a. m., and at 3 o'clock p. m. A nap after dinner is helpful to old people. Retire early at night and do not worry or fret about anything. Take life easy and yet not so easy as to avoid necessary exercise. Do not take more medicines than are absolutely necessary.

Cancers.—There has been much speculation as to the cause of cancers. Intelligent physicians have been foolish enough to think that tomato eating may be a cause, but the true cause may be traced to impure blood. Bad blood is the cause of many physical disorders. We would all be healthier if our veins were filled with pure blood. We cannot have pure blood if we sleep in suffocating rooms and spend our waking hours in rooms poorly ventilated.

A doctor's first words were when called to see a child near death with diphtheria, "remove her to another room." The new room was free from taint and poor ventilation, thus the child revived at once without medicine. There are hundreds of thousands of sick people who can be cured with fresh air and without medicine. But we must use discretion, in admitting fresh air to our rooms, particularly when we are sick. I have the habit of sleeping with my bedroom window raised more or less every night throughout the summer, fall and winter.

Throat Trouble.—A lecturer on health spoke of the necessity of keeping the feet warm and dry as a remedy for and preventative of throat trouble. The feet are important members of the body and are often neglected. The largest pores of the body are on the soles of the feet, therefore the feet should be washed often. It would be suicide for many people to sit long with damp or wet feet. If the shoes are at all wet it is best to remove them and put on dry shoes and stockings.

It begins to look as though the national house of representatives will soon consist of one speaker and a roll call.

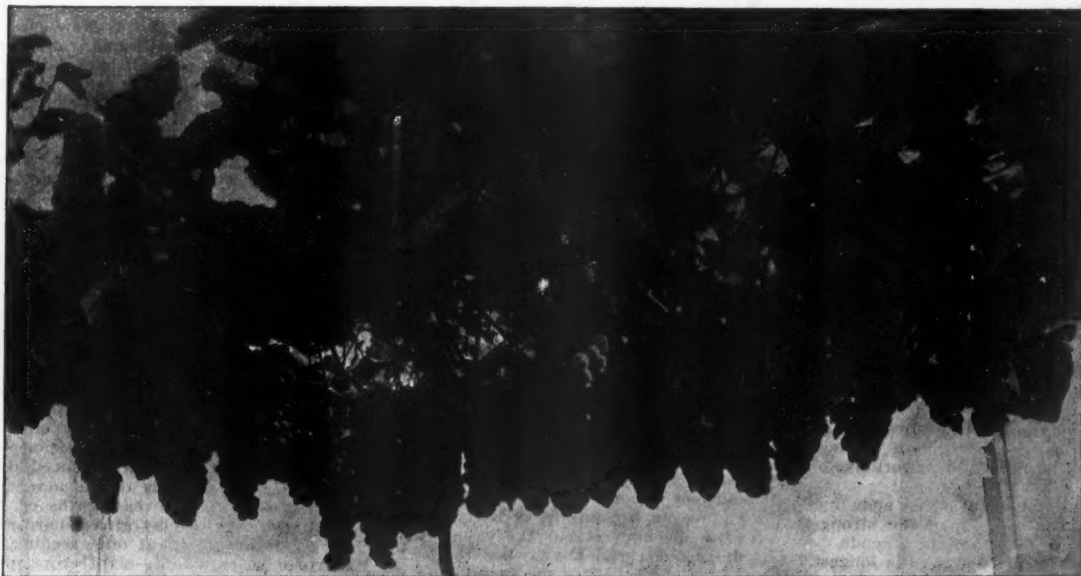
Pneumonia.—Nearly half of the deaths occurring annually are caused by pneumonia. How important that we should know how to protect ourselves against this terrible disease. One half of all who are attacked with it perish. To avoid pneumonia we should accustom ourselves to the climate in which we live. If we are continually confined to heated rooms when we occasionally expose ourselves to northern winters we are liable to be chilled and to expose ourselves to pneumonia. But if we walk daily considerably out in the fresh air, thus accustoming ourselves to various kinds of weather, and if we sleep in

a pair of healthy lungs might inhale millions of tubercle bacilli daily with impunity. Like every other organ in the body, the lungs become vigorous with use, disuse means decay, therefore to develop the lungs they must be exercised by deep breathing. Even five minutes of lung exercise daily will work wonders.—Omega.

Against Weakness.—There is such an inherent love for wholeness, such a longing for perfection, in man, that we instinctively shrink from and have a prejudice against deficiency, incompleteness or half-development, says Success. We

Blood Circulation.

The secret of health, as every intelligent physician knows, is free and full circulation of the blood and this circulation is dependent absolutely on thorough oxygenation. In many cases where erroneous habits of living have been so long continued that congestion has become chronic in one shape or another—obesity, gout, rheumatism, constipation or tuberculosis having camped in the system and crippled it—the patient is not apt to be in a condition to readily assimilate a sufficient quantity of oxygen direct from the atmosphere. The breathing apparatus must first be properly de-



A MARVELOUS GRAPE VINE.

The above is from a photograph of a vine of the Niagara grape grown by H. M. Mayer of Pa., a subscriber to Green's Fruit Grower. He practices the two arm Kniffin system of pruning, training on the three wired canopy trellis 4 1/2 feet high. He gives careful summer pruning, putting on the clusters paper bags. The vine shown above bore in one season 32 bunches weighing 28 pounds, one bunch weighing 26 ounces, an average of 14 ounces per bunch. In the fall of 1903 this vine had 41 bunches weighing 32 pounds. This shows what can be done with one grape vine under similar treatment.

rooms cooled by having the window slightly raised, we become somewhat hardened. Deep breathing is essential to the development of the lungs and the avoidance of all kinds of lung troubles. Drinking an abundance of water carries off many poisons of the system and thus helps us to avoid pneumonia.

P. T. Barnum was fond of the following story, says the New York Tribune, told him by a Hartford physician: "The other day," said the physician, "a circus came to town, and a baby was taken sick. I was called upon to prescribe for it, and I suggested elephant's milk. Now, would you believe it, that baby gained 239 pounds in one week. 'Twas the elephant's baby."

Importance of Deep Breathing.—Call attention to the great importance of deep breathing, that is of inflating the lungs to their fullest capacity. Shallow breathing is the rule, deep breathing the exception, that is why consumption finds such a fertile field in a large proportion of people. In the majority of cases, consumption commences just below the clavicle (or collar bone), for here is the portion of the lungs that is least used in ordinary breathing. The individual with

are so constituted that we may pity weakness, we can never admire it.

Health is the everlasting fact, the truth of being which is implanted in our ideal and any departure from this normal standard ideal may excite sympathy, pity or regret, but never admiration.

A great German physician used to say that there is something in man which is never sick, never out of harmony, never abnormal and never dies. We have a conviction that, as we were made in the image of our Creator, absolute perfection is possible to us, and that any departure from this is a weakness, a sin, or perhaps a crime. There is nothing else so inspiring as the contemplation of absolute perfection.

Strength and vigor give confidence. They are proofs of ability to achieve, to accomplish, to do things. We admire evidence of reserve power, which makes one equal to any emergency. We are so made up that we cannot help respecting force, power, energy, completeness, wholesomeness and symmetry.

We admire people who do great things easily, while we have but a poor opinion of the weaker person who does the same thing with a great outlay of strength and energy.

veloped, so that the patient shall be able to gradually increase the supply of air to the system, until at last he recovers the normal power of deep breathing.

With the building up of the lungs through proper breathing there is a metabolism of all the tissues and organs, so that for most men, breathing exercises are more important than any mere muscular exercise. Not only the lungs, but all the internal organs are brought into play by correct breathing. It develops the heart, stomach, liver and kidneys directly and indirectly, and nourishes all these organs as they should be nourished by more blood and better blood in constant and regular circulation. Breathing, therefore, is a sovereign remedy for our national disease of nervous depletion. It might well replace the countless tonics, stimulants and anodynes now so commonly resorted to, where results are nothing less than tragic in thousands of cases.—Maurice Manning, M. D., in Vim.

"You've got a cinch," remarked the yardstick to the sewing machine. "Nothing to do but sew seams." "Seems so," replied the machine, ironically.—Philadelphia Ledger.

Then and Now.

Written for Green's Fruit Grower by
E. P. Dickerman.

Deep in Arcadian grove, the wood-nymphs
used to rove,
What time the rural gods had dancing;
Pan's sweet-toned reeds are still, although
his purling rill
So charms the sense with strains en-
trancing.

Dead are the heroes bold, who fought in
days of old,
For honor, vengeance, loot and glory;
Though mutes may be mute, the wind's
ecstatic flute
By moonlight serenades fair Flora.

Behold the shining dew, all sparkling to
our view,
The tears Aurora weeps when crying;
For Ethiope Memnon, slain upon the Trojan
plain,
Bright pearls upon the grassward lying!

Sweet Echo still 's heard, like some elusive
bird,
Her voice from cliff and crag resounding;
And yet young hearts, with love's most
cruel darts,
The roguish Cupid keeps on wounding.

Lake birds upon the wing, then could poets
sore and sing,
Anacreontic verse delightful;
Now poets write for cash and earn their
daily hash
Composing poems good or frightful.

Don'ts for Busy Farmer's Wives.

Written for Green's Fruit Grower by
Mrs. William Miller.

Don't overwork.

Don't forget to take time to rest and
"fix up" a bit each day. By so doing
you will reap far more enjoyment than
to drudge all day.

Don't forget to read something good
and helpful each day. Reject the fool-
ish, light reading. Burn it as it comes
in your house, especially if there are dear
children there. If they form the habit—
while young—of reading such, it will
grow on them, and destroy the taste for
good reading and poison both mind and
morals.

Don't forget to save yourself all the
steps you can by thinking as you go from
room to room.

Don't think that, however tired, each
task must be done. Do those the most
needed. A well kept house is fine and en-
joyable. But a well preserved body is
worth far more, in a home.

Don't think you must iron every gar-
ment in the wash; many may be left. If
clean, it is enough. We have seen ladies
iron old, worn, half-clean garments. Be
sure to air them well.

Don't forget that we have things bet-
ter than our mothers'. So many labor
saving methods. Think of the reser-
voir on our cook stoves; how much time
and wood it saves. Our mothers often
had to wait for warm water, because for-
gotten before sitting down to meals.

Don't forget to heed these things. The
writer has been "through the mill" and
knows the folly of overworking.

"Nature, impartial in her ends
When she made man the strongest.
In justice then to make amends,
Made woman's tongue the longest."

An Essay on Hens.—A boy who was
required to write an essay on hens pro-
duced the following: "Hens is curious
animals; they don't have no nose nor no
teeth nor no ears. They swallow their
wittles whole and chew it up in their
crops inside of 'em. The outside of hens
is generally put into pillers and into
feather dusters. The inside of a hen is
sometimes filled with marbles and shirt
buttons and such. A hen is very much
smaller than a good many other ani-
mals, but they'll dig up more tomato
plants than anything that ain't a hen.
Hens is very useful to lay eggs for plum
puddings. Hens have got wings and
fly when they get frightened: I cut off
a hen's head with a hatchet and it
frightened her to death."

James Reber, N. Y., ordered one set-
ting of single comb Brown Leghorn eggs
from Green's Nursery company last
spring and hatched 7 pullets and 3 roos-
ters, the finest birds that he ever raised
from the 13 eggs. He also reports that
his receipts during the year just past
from 105 single comb Brown Leghorn
hens was \$180.14 for eggs sold and that
the cost for feed was \$84.18, leaving him
a net profit of \$95.96. As these eggs
were sold at the regular market price,
shows what one can accomplish with a
few hens.

Lousy Stock.—You cannot make lousy
poultry or other lousy animals vigorous
and healthy any more than you can
make a tree vigorous that is infested
with scale or plant lice. The first thing
to do is to get rid of the lice.

RURAL TOPICS

It is said that the agricultural products
of the South will this year yield at least
\$1,500,000,000 to Southern farmers, against
\$660,000,000 in 1880 and \$1,270,000,000 in
1900. The value of the products of
Southern factories and mines will be
\$1,750,000,000, against \$450,000,000 in 1880,
and \$1,500,000,000 in 1900, showing a total
of \$3,250,000,000 for the year, a difference
of nearly \$500,000,000 as compared with
the total value of the South's products
only three years ago.

Don't Feed Too Much.—A mistake fre-
quently made by those who are trying
to be good to their hens is feeding too
generously. When you go into a hen-
house and find scraps of meat on one
hand, a trough of dirty milk on another,
and the leanings of several grain feeds
on the floor, you may be sure those fowls
are overfed. This is much worse than
the opposite condition. It is fully as bad
for the birds, and involves a waste of
feed. We said it is as bad for the birds
—it is worse. A chicken kept always
a little hungry will more readily respond
to correct feeding, than will one whose
appetite has failed as a result of con-
tinued gorging.

Whichever one of the numerous sys-
tems of feeding you follow, be careful
to keep a little below the line of full
"satisfaction."—Maritime Farmer.

Difference in Soils.—Light and heavy
soils are accepted as terms applying to
sandy-clay locations, says Baltimore
"Sun." A sandy soil is considered light,
but in reality it is heavier than a clay
soil, so far as weight of soil is concerned;
but a light soil is one that is easy to
work, hence the application to sandy
soils. Clay soils may be sticky when
wet, or bake hard when dry, requiring
much labor before the soil can be got-
ten in proper condition for crops, but a
sandy soil is always mellow, seldom
clogs and can be worked at any time
during the season.

A Successful Frog Industry.—Nathaniel
Wetzel, formerly of Kilbourn, Wis., says
an Exchange, has been remarkably suc-
cessful in several large business enter-
prises of an agricultural nature. He ac-
quired the title of "melon king," by
making Rock Ford, Col., famous for its
cantaloupes. He has now just won the
title of "frog king" by doing \$40,000
worth of business in bullfrogs at Beau-
mont, Texas, during the past year. These
frogs came from both Louisiana and
Texas and Mr. Wetzel is about to
establish near New Orleans the largest
frog ranche in the world, where thirty
expert catchers will be constantly em-
ployed.

Success in the dairy business does
not come by chance or luck. A man does
not "happen" to have good cows. He
did not become possessed of them by
chance or because he is lucky, but be-
cause he understands the value of good
dairy blood and knows how to rear the
heifer calves. The successful man does
not have plenty of green, succulent feed
for his cows by reason of luck; he pro-
vides such things because experience has
taught him that it pays.

The food fed hens during winter
should be a mixture of grains best cal-
culated to invigorate and provide for an
egg yield, principally oats, wheat and
corn. The bulk of winter grain food
should be oats and wheat. If hulled
oats can be provided, they are much
better than the oats with the husks on
them. If a liberal supply of wheat,
oats and corn is furnished, not more
than one fourth of the whole ration be-
ing corn, and fed to the hens among the
litter, it will provide a good egg ration
so far as the grain supply is concerned.
If they are not properly housed, more
corn or heating grain of some kind must
be provided to make up for the lack of
comfort and shelter that the good, well-
built, substantial house will provide.
Where the hens are properly housed,
they do not have to draw so largely upon
the heating foods in the system to keep
them warm, and more of their food can
go toward the making of eggs.—Maine
Farmer.

(Grain alone, however, is not a com-
plete egg ration. Animal food, such as
meat meal, beef scraps or cut fresh
bone must be added. These take the
place of the worms, insects, etc., the
fowls can get in summer, and supply
the needed albumen.—Ed.)

The merits and demerits of owls and
hawks came up again at the recent
meeting of the New York league, and a

recommendation that the birds should
be destroyed was referred to a committee
for a more mature consideration. The
charge against the species is that they
destroy great numbers of game birds.
On the other hand, they destroy also
great numbers of noxious creatures; and
the opinion of economic ornithologists is,
on the whole, favorable to hawk and
owl. Notwithstanding this, we have in
different states conflicting laws on the
subject, some making the killing of
hawks and owls a misdemeanor, and
others giving a bounty for their destruc-
tion.—"Forest and Stream."

The crop bulletin of the Kansas Board
of Agriculture for the present year
shows the agricultural and live stock
products valued at \$223,984,508.

Do we value trees as we should? Do
we consider how valuable trees are for
their fruit, their shade and their wood?
I am almost a tree worshiper. My home
is known as The Maples, as the house is
surrounded by large massive maples
which I have grown to love. My father's
home is just across the road. Grand-
father, during his lifetime, set out apple
trees all along the roadside between the
sidewalk and the highway. Father has
followed his example and on our side of
the road, thus there are two rows of
pretty trees which supply both shade
and fruit. Thus writes Cora June Shep-
pard, of New Jersey, a lady who has
sent Green's Fruit Grower photographs
representing fruit scenes, attractive
views of orchards, etc. One of these
photographs represents the Mimosa tree,
which she says is an oriental tree grow-
ing in the yard of ex-Postmaster Miner,
of Bridgetown, N. J. The peculiar feature
of this tree is that it goes to sleep every
night. As soon as the sun sets the leaves
fold tightly together. It is said to be the
only tree of its kind in New Jersey.
Professor H. E. Van Deman says the
Mimosa is not hardy north of Philadel-
phia. It is a handsome and peculiar
tree usually grown south of Washington,
D. C.

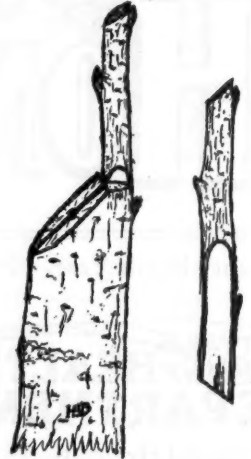
I am a subscriber to Green's Fruit
Grower and would not know how to do
without it in my orchard work.—W. V.
McGalliard.

Great Yields of Hay.—With hay fig-
ured at \$8.50 per ton, you can make \$20 a
year per acre, at \$18.00 per ton you can
make \$80.00, an average of over \$50.00 an
acre per year, and grass is a very sure
crop. I sow redtop and timothy in equal
parts, 14 quarts each kind of seed to
the acre. They grow well together and
produce a ton and a half more hay to
the acre when thus sown. My circular
tells about it. My first experience on six-
teen acres in two crops produced over
100 tons, over six tons to the acre. On
one flat section of seven-eighths of an
acre covered with clay gravel hardpan,
no vegetation on it, at one seeding, in
fourteen years, twenty-eight crops, pro-
duced 114 1-4 tons of dry hay, a net
profit of \$1,200.00, over \$55.00 per year.
A section of five-eighths of an acre, in
two crops this year, gave a rate of 21,400
pounds to the acre, at \$16.00 per ton, gave
a net profit of \$117.00. Not a year in the
eighteen but what some one or more
acres of this field have produced more
than six tons, sometimes over seven tons
first crop. Again, there never has been
a year in which less than six tons have
been grown in two crops. That is not
due to favorable conditions to start
with, it is due to intense cultivation, fer-
tilizer, and care. The outside cost of
hay does not exceed \$2 for labor, \$3 for
fertilizer, total cost per ton for well
dried hay in barn, \$5.00. The most re-
markable sample will be shown this year
from a quarter acre section where the
first crop cut was over four feet in
height and weighed 2,471 pounds. Sec-
ond crop cut this year from the same
field was over three feet high and
weighed 2,240 pounds, making 7 1-2 feet
in height. Each crop was fully headed
and blossomed. The third crop did not
blossom, but weighed 1,750 pounds, at the
rate of 3 1-2 tons to the acre. The total
weight of the three crops from this quar-
ter acre section this year was 6,401
pounds, or at the rate of 25,644 pounds
per acre, and a total growth of over nine
feet. This quarter acre section at \$16.00
per ton produced a rate of \$136.00 net
profit per acre. The general average of
my field for eighteen years has given a
net profit of over \$50.00 per year per acre,
hence I say we can, if we will, make
money in grass culture.—Geo. M. Clark,
Higganum, Conn.

VAN DEMAN PAPERS

GRAFTING.

Although the art of grafting has been
known and practiced for thousands of
years there are many who now call
themselves horticulturists who do not
understand it, and some think it is mys-
terious something that they do not feel
competent to attempt. This is a mis-
taken idea, for, while grafting is not
only a very useful art and embraces
some of the wonderful laws of nature
there is nothing really mysterious about
it nor anything so difficult but that it
can be learned and successfully done by
any intelligent person.



Before taking up the different meth-
ods and explaining how the work should
be done it will make it all the more eas-
ily understood to briefly consider some
of the underlying principles, or the
scientific side of the matter.

WHY DO WE GRAFT?

There are those who think that graft-
ing is done to improve the tree operated
upon, and so it is, but it in no way
makes the original part of the tree any
better. It is the part above the original
stock or tree that is different from or
better than the original, because it is a
part of another one which was better by
nature. The part that is grafted on
has carried with it all the peculiarities of
the variety, whether they be good or
bad, in branch, leaf, flower and fruit. It
is a sort of transplanting above ground.
If we know a tree that bears good fruit
somewhere we may want the same kind
of fruit on one or more trees of our own.
This can be done by taking scions from
the desirable one and causing them to
grow where we want them, provided
they will unite.

HOW THE SCION AND STOCK
UNITE.

Almost everyone knows that grafting
is done by cutting both stock and scion
in such a way that their cut surfaces
may be put together and that they final-
ly grow together; but the idea that the
real cut surfaces grow together is a mis-
take. They never do. It is the living,
growing cells between the bark and
wood that unite. Wood is only the
product of cellular growth. After it is
once formed it is of service for a short
time to carry sap, (and we then call it
"sap wood,") but it soon becomes inac-
tive or dead and is valuable only for
its stiffness and strength. The nearer
the heart of a tree the older and the far-
ther it is from being alive.

There is a soft, slimy but very thin
layer between the bark and wood which
is a mass of cells, which are very active
in the summer time or growing season
and almost absent in the winter, when
no new wood and bark are being formed.
It is called the cambium layer. It is
the part of the grafter to know when
and how to so place the cambium layers
of the stock and scion that they will
grow together and form a union of
woody tissue that will increase in size
and strength until it and the bark and
intervening parts are able to carry on
the normal functions of life. If the
cambium layers are not put in contact
vital union cannot take place, no mat-
ter how firmly the woody parts of stock
and scion are held together, and graft-
ing will be a failure.

Another very essential matter is to
prevent the sap from evaporating from
the wound until nature has coated it
over with a growth of bark. This is
usually done by waxing it. A primitive
way was to use clay for this purpose,
but it comes off too easy. In under-
ground grafting this is as good as wax
and cheaper; but it is usual unnecessary
to do more than press the earth closely
about the wound and bank it up to the
top.

It is also essential that the stock and
scion be of the same botanical species

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or of nearly the same character of cellular affinity or they will not unite. Apple takes on apple, and pear on pear, but they will not intergraft with much success. They will grow for a time and in some cases long enough to bear several crops of fruit, but they eventually break apart. Quince and pear unite quite well. So does the peach and Japanese plum and a few other diverse species. There are differences in the affinity of varieties of the same species, when grafted or budded one upon the other, and they are not always congenial.

METHODS OF GRAFTING.

There are many ways or methods of grafting but they all embody the principles just mentioned. At this time I will describe only one of them, the cleft or split graft, which is the one most commonly used for top-working and also the best. It is very simple and easy to put into practice; neither are the others difficult. The tongue or splice graft is suitable for small stocks and is almost always used in making root grafts. Saddle grafting is a method by which the stock is sharpened to a wedge and the scion split and set astride the wedge. Side grafting has several variations, but the main idea is to make a cut in the side of a stock and insert a scion in the cut.

MATERIALS AND TOOLS NEEDED.

For cleft grafting there are several things in the way of preparation that must be provided. Scions must be procured in good time, and the earlier the better, even if it be in the late fall, before there is any damage from severe winter weather. They should be cut from the thriftiest part of the tree, where the growth is a foot or more in length and with well developed buds. Whether cut early or late the scions should be put where they will keep cool and moist.

Grafting wax will be needed, which is made of 1 pound of tallow, 2 of beeswax and 4 of rosin. Paraffine can be used instead of beeswax and is just as good and cheaper, and one pound is enough. Melt these altogether and when thoroughly mixed pour into a tin of cold water and when cool enough to handle pull it like taffy, make it into balls and wrap in greased papers ready for use.

A small saw to use in cutting off the branches to be grafted. A medium sized butcher's saw changed by set and file to a wood saw is much better than a wide bladed one.

A good grafting knife can be made of the best steel seven inches long by any good blacksmith. The blade should be 1-8 inch thick, 3-4 wide and 3-2 long besides the handle, which should be just long enough to grasp easily. The blade should be strong and drawn to a sharp edge, and also the end should be drawn to an edge, that it may be used to pry open the stock after it is split with the edge. A little club will serve as a mallet for splitting. A very sharp pocket knife is also needed to trim the scions, and always kept sharp. A little lump of tallow should be provided to grease the waxer's hands.

HOW TO GRAFT.

In grafting a large tree do not do it all the first year but leave a part of the branches that should be grafted until the next, because of too great a shock to the tree. Graft the topmost and other most prominent branches first. Cut them off not over six inches from their junction with the trunk or larger branches; for long, shanky stumps are very undesirable. Those from 1 to 2-2 inches are the right size and never very large ones. Go higher rather than cut those over that size. Almost cut them off with a slope of about 45 degrees and never square across the grain. This is one of the new improvements in grafting that very few good grafters understand. A little part of the top is squared off with the knife, to make a place to set the scion; and, no matter how large the stump only one scion should be set. Two make an ugly fork. One scion on the top of a sloping stump will heal over more quickly and with a better scar than a square stump with one or more scions on it.

In splitting the stump place the knife so that the blade will split it in the center and from the top to the bottom of the cut.

The scion should be about three inches long and with from three to four buds on it, one being close to the top and one one within half an inch of the

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All five papers one year for \$1.00. Publisher's price, \$1.55. See other liberal offers on another page.

To Market Gardeners and Others

Since commercial fertilizers were introduced in the market garden sections of this country, particularly about Boston, city manure has dropped in price from \$8.00 a cord to practically nothing,—many farmers now getting it for the hauling. The advanced market gardener, however, uses only what manure is produced on the farm, and for the remainder of his plant food uses concentrated fertilizers. He buys fertilizer for his crops as he buys grain for his horses,—both being concentrated foods which can be bought cheaper than they can be produced or hauled a long distance. Bradley's fertilizers were introduced to market gardeners and farmers forty-three years ago, and have kept the lead ever since in *quality* and *quantity* sold.

Mr. F. E. Ham, a market gardener of Burlington, Mass., writes: "I have an asparagus bed of one and one-half acres which has not been dressed with stable manure for the past seven years. I apply every spring a ton of Bradley's Fertilizer and nothing else,—and average to cut \$500.00 worth of asparagus yearly from this bed, having cut as high as \$90.00 worth in one week."

Why Experiment, when Bradley's Fertilizers Produce Crops Like This?

BRADLEY FERTILIZER WORKS American Agricultural Chemical Co.

92 State Street : : Boston, Mass.



butt. In trimming it is a wedge at the butt begin a little more than an inch above the end and make a long, straight cut that leaves the bud intact and comes out nearly at the center of the end. Take a similar shaving or chip from the opposite side, but leaving the thickest side of the wedge next the bud. A number of scions may be thus prepared at once ready for use, but they must not be allowed to become dry. With the point of the grafting knife pry open the split in the stock and insert the wedge of the scion almost its full length, being very careful to have the Cambium layers of the scion and stock to come in contact, and not necessarily the outside of the bark of each. Then wax over every part of the cut and split surfaces, but not very thickly; for a thin coat is more economical of the wax and equally good. It is well to have an-

other person to do the waxing, because the grafters hands and tools should not be daubed with the wax or the grease that the one who waxes must use on his hands.

AFTER TREATMENT.

When the grafts are set they will need no special attention until the sprouts begin to come out on the stocks. These must be rubbed off very promptly until they stop, which will probably require going over them three times, at intervals of two weeks or more. If they are not rubbed off the sprouts from the grafts will be overgrown and seriously, if not permanently injured.

H. E. Randeman

The stationary stone becomes a moss-back.

"Fare," exclaimed the street car conductor, elbowing his way down the densely packed aisle.

"I can't move my arms!" gasped the passenger at whom he was pointing. "But there's a man behind me that has his hand in my pocket. Please ask him to pay my fare."—Chicago Tribune.

"How is your boy getting along in his new situation?"

"Pretty good," answered Farmer Corn-tassel. "If Josh makes a mistake it will be on the safe side. He ain't likely to do enough work to run any risk of bein' jumped on fur doin' somethin' wrong."—Washington Star.

"How do they get on together?" "Famously! They quarrel continuously, and their quarrels all get into the newspapers."

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patented system of temperature regulation, and perfected system of ventilation. The Cornell ventilates in Nature's way. Get the proper moisture lines at the right time—in any locality—under all conditions and at any season of the year. Results: Healthiest and most vigorous chicks ever obtained by artificial incubation. Cabinet construction, Compound door, Table top. Gold Medal Highest Award at Buffalo Pan American Exposition.

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Cornell Incubator Mfg. Company,
Box 55.
Ithaca, N. Y.

Auburn, Me., June 24, 1905.

Cornell Incubator Mfg. Co.,
Ithaca, New York.

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Yours sincerely,
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Perfect in construction and action. Matches every fertile egg. Write for catalogue to-day.

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(Not the Cyphers by name.)

contains all my latest improvements, and is warranted to out-hatch my older invention which still bears my name and is made by another firm. Don't get this new and old machine confused. See that your purchase bears the name "Model" with my signature through it. Send for my new catalogue. It is free.

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Cut Prices

As an inducement to secure new customers I will sell eggs this spring at half price, as follows:

Per setting	Per setting
Buff P. Rocks, 13 \$1 00	S.C.W. & B. Lg's, 13 \$1 00
Barred P. Rocks, 13 1 00	R.C.B. Lg's, 13 1 00
White P. Rocks, 13 1 00	Black Minorcas, 13 1 00
Light Brahmans, 13 1 00	Patridge W'd's, 13 1 50
B. Wyandottes, 13 1 00	S.C.B. Orp'ns, 13 2 00
B. Wyandottes, 13 1 00	S.C.B. Orp'ns, 13 2 00
W. Wyandottes, 13 1 00	R.C.W. Orp'ns, 13 3 00
Houdans, 13 1 00	S.C.W. Orp'ns, 13 3 00
Buff Leghorns, 13 1 00	R.C.W. Orp'ns, 13 3 00

S. C. Buff Orpington eggs, \$3 for 80; \$5 for 100; R. C. Buff and S. C. White Orpington eggs, \$5 for 25; \$10 for 50. All other eggs \$6 per 100. 40 years among poultry and now have the largest and best equipped poultry establishments in America. CIRCULAR FREE.

Louis C. Beatty, Box 39, Washington, N. J.

\$30 WEEKLY Straight Salary and all expenses to men with right to introduce our Poultry and Stock Remedies. Send for contract. We mean business and furnish the best of references. Dept. M, ROYAL CO.-OP. N.Y. 60, Indianapolis, Ind.

BUFF ROCK COCK FOR SALE

We have just one bird left. It is pure blooded, attractive, and desirable in every way. One year old. Price, \$5.00. Be quick if you want him. **Green's Nursery Company, Rochester, N. Y.**

SQUABS are raised in 1 month; bring big prices. Money makers for poultrymen, farmers, women. Send for our FREE BOOK and learn this immensely rich industry. Plymouth Rock Squab Co., 14 Friend Street, Boston, Mass.

\$60 PER MONTH for men with right to introduce our Poultry Remedies among the farmers. We mean business and furnish best references of our reliability. Don't answer unless you mean business.

Address, Eureka Mfg. Co., Dept. 41, E. St. Louis, Ill.

LITTLE CHICKS DON'T DIE when fed and tended right. Feed Mrs. Pinkerton's Chick Feed and make good profits. Write now for free catalogue on chick raising and learn too about our prize winning, pure bred birds.

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EARN A SETTING OF EGGS as a premium by getting ten yearly subscribers to **THE POULTRY ITEM** at 25 cts. each. Sixty varieties. Send for outfit at once. **THE POULTRY ITEM, FRICKS, PENN.**

A THOUSAND DOLLAR EGG—a touching story of devotion telling how Mandy paid the mortgage and saved the farm. Tells how to make money from poultry. Also Egg Record and Calendar for 1906. Mailed free. Geo. H. Lee Co., Omaha, Neb.

SHOEMAKER'S POULTRY BOOK ON ALABAMA for 1906, contains 216 pages with fine colored plates true to life. It tells all about chickens, their care, diseases, and remedies; incubators and how to operate them; poultry houses and how to build them. It is an encyclopedia of chick-raising that one can afford to be without. Price only 15 cents. C. C. SHOEMAKER, Box 671, Freeport, Ill.

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TO BE GIVEN AWAY. For Next 30 Days Only, we will mail our fine valuable Poultry Book FREE. Tells you all about poultry, how to make big money with poultry and eggs; contains colored plate of fowls in their natural colors. Send 10c for mailing and postage. **JOHN BAUSCHER, JR., Box 42, Freeport, Ill.**

THIS ONE SAVES YOU Write today for Free Catalog and Poultry Book describing NEW IDEA INCUBATOR. Most durable built, best regulated, honest, lamp tanks, etc. Complete at only two-thirds cost of other high priced models. Write today. Address: **CHARLES SHAW & CO., Box 1, Quincy, Ill.**

Please mention Green's Fruit Grower.



Our New Poultry Editor.

With this issue of Green's Fruit Grower, Mr. A. F. Hunter begins his work as editor of our poultry department. Mr. Hunter is doubtless well known to many of the poultry fanciers who read Green's Fruit Grower. He has a national reputation as a poultryman. He is a man of large experience as a writer on poultry subjects. Poultry keeping is each year attracting more attention. It is scarcely second in importance to fruit growing. Poultry products doubtless add more wealth to the country each year than fruit growing. There are more people interested in poultry than in fruit growing. We trust that our readers will be interested and instructed by the articles from Mr. Hunter's pen in the coming issues of Green's Fruit Grower.

Planning for the Chickens.

With stern winter still holding us firmly in its grip it seems like getting ahead of time to urge the preparing for chickens to be hatched this spring, but it is early chickens that give us the pullets that lay eggs in the fall and winter, hence the wisdom of planning for the chickens now, so that when hatching season is at hand we will be ready. There should be no delay in mating the pens. This means that the best females only should be selected for the breeding pens, and in selecting them pick out the best birds in shape, type, constitutional vigor, and, above all, in laying ability. Mate ten or twelve of the best females with the best male bird that you can procure and one coming from great-laying ancestry. Don't breed from "any-old-thing" that is at hand. Remember that "the male is half the pen" he is one of the two parents of all the chicks from that pen, hence the greatest importance attaches to the selecting of the male. The better the birds we select for breeding stock the more eggs in the nests next fall and winter, and it is eggs that are laid when prices are high that pay the creamy profits.

It is frequently complained that "we can't hatch early chickens, because the hens won't set till late in the spring." That is unfortunate, because these hens not going broody until late means late hatched chickens, which won't come to maturity and the pullets laying before mid-winter, and that means that they in turn won't be broody until late the following spring, and so the late-hatching carries its miseries on year after year. We can control the time of hatching by using incubators and brooders, then we can hatch as early as we like. Write to one or more of the incubator manufacturers advertising in our columns and ask for a catalogue. That is all you need to do. They will send catalogues for the asking if you tell them you saw their ad. in Green's Fruit Grower, for the incubator manufacturer's aim to serve the public that is interested in poultry, and to further this they prepare catalogues which not only describe fully the merits of their machines, but give much other valuable information.

Don't put off sending for an incubator catalogue until spring has come, and do not put off buying the incubator until it is time to set it. The chicks should be out in April, or, at least, the first half of May, if we would have eggs in November and December, hence we should begin at once the preparations necessary to attain the desired end. The high prices and steady demand for poultry and eggs in the past two years are full of encouragement for us to do more and better poultry work, and it is "up to us" to hatch the chickens early, then keep them growing so the pullets reach laying maturity before cold weather overtakes them, and we should at once plan for this much desired result.—A. F. H.

"Come out, American rooster; Get on your feet and crow; Exalt your head, erect your tail, And let the breezes blow Full thro' your feathery whiskers, And o'er your well-combed head, For your busy wife's a corks At laying eggs, 'tis said."

Ethel—But why does your father object to him?

Edith—Oh, just so he can say: "I told you so," after we are married, I suppose.

—Puck.

Combining Poultry and Fruit.

An Ideal Combination Which Increases Both Profits.

The combining of poultry and fruit raising is doubly advantageous; the poultry keeping down insects, grubs and worms that injure either the trees, or the fruit, or both, and the trees furnishing much needed shade for the poultry. In the apple, pear and peach orchard the advantages gained from having the poultry run in it are very great. Not only do the fowls keep insects and worms in subjection, but the scratching and wallowing in the freshly cultivated soil keeps the droppings stirred in and mixed with the soil so the feeding roots can reach them, and it will be found that the soil will need less frequent cultivating, as the birds will keep the weeds and grass subdued.

The decidedly great benefit of the poultry droppings to the trees is less well known than it deserves to be. A poultry-grower in Western New York told us that apple trees which formerly bore but every other year now produce full crops annually, the abundant fruiting being due to the fertility of the soil having been decidedly increased by the poultry droppings. A farmer in Maine who keeps about 200 hens, all running together in one house 60x12 feet in size, gives them the run of an apple orchard of about an acre; the orchard is enclosed by four feet high poultry netting. He told us last November, when we were praising some of the handsome apples he was picking, that half a dozen years ago he only got fifty to seventy-five bushels of apples a year from the whole orchard, and that now he averages 300 to 400 bushels of apples a year from it. As the orchard has been set about thirty years it is evident that making a poultry yard of it had more than doubled its productiveness. It has quickened the growth of the limbs, too, and our friend told us it was now more work to keep the trees pruned than it used to be! The most remarkable thing about it was two Northern Spy trees which stood in one corner of the orchard and did not get much good from the poultry droppings until he cooped about forty half-grown pullets under one of them. That tree had never borne apples that were good for anything, what few it had borne being knarly, scrubby things, only fit to throw to the hogs, and he had more than once declared he would cut it down and set something else there. The second year after the pullets were cooped under it there was a fair crop of quite good fruit, and every year since it has borne full crops of fine, smooth apples.

Another similar experience is told by Mr. Duston, the well known White Wyandotte breeder. Needing more room for his poultry work he bought a five-acre tract adjoining his place in the rear, part of it being an old orchard. Of his experience with it he says: "The past fall we must have gathered better than 100 bushels of apples from these old and practically abandoned trees. This productiveness I attribute entirely to the ranging of the hens under the trees. The old apple orchard had not been trimmed or had anything done to it for at least fifteen years; the few apples the trees did bear were measly little things, but after the birds had run on the land only one season we got a fair crop, and the next season still more. A year ago those trees were trimmed up, and this year we had Hubbardstones that would make your mouth water, and many of them would weigh a pound a piece, I should think."

Another point is that the shade of the trees is of most decided benefit to the fowls, affording them shelter from the heat of the sun, which protection is most essential to their comfort in summer. In furnishing this most desirable shade the trees reciprocate the benefits received from the fowls, which can, in an orchard, find either shade or sunshine at will.

When possible locate the poultry house in, (or on the edge of), the orchard, and if it seems best to have yards for a part or all of the flocks either a part (if all of the time, either temporary or permanent fences may be erected. If the fence-partitions are only wanted for a few weeks during the breeding season stakes may be driven about thirty feet apart and the wire netting secured to them by the staples being driven not quite home, then the staples can be easily drawn, the netting rolled up and put away, and the birds given the run of the whole orchard.—A. F. H.

"And aren't you married yet?"

"No."

"Well, well. I thought you were engaged to a certain young lady in Germantown?"

"No. I was engaged to an uncertain young lady in Germantown, and that's why I'm not married."—Philadelphia Press.

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Our 20th Century Poultry Book tells "why" and a hundred other things every poultry owner should know. Send for 10 cents. We have 115 years of pure bred poultry.

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Save Two Thirds of the oil and get 10 per cent extra chicks by using **VON CULIN INCUBATORS.** Absolutely the highest grade machines on market and sold lower than any other in its class. Will pay for itself first season by what it saves and bigger incomes. Our "Bolted Down" Catalogue proves all claims. Send free. **Wayland Inc., & Mfg. Co., Box 65, Wayland, N. Y.**

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That's what you get when your incubator is fitted and governed with the Compound **ACME REGULATOR.** Catalogue of Lamps, Incubator Supplies, free. Ask about plans for building machines at cost. **The H. M. Sizer Co., Box 24, Quincy, Ill.**

BEAUTIFUL PICTURE in colors FREE with a Sample Copy of Fancier's Gazette, the most instructive poultry paper published. It teaches you how to make money out of the greatest industry in the world. Also learn about our \$15,000 World's Fair prize offer. Send us your name on a postal card.

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When you put eggs—fertile eggs into **Ormas Incubators** you are never disappointed with the results. Not only hatches them all; but hatches chicks that are strong, lively and vigorous. Guaranteed. A cheap, good incubator made. Catalogue free.

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SAVE THE CHICKS

The HUMPHREY Pure Air BROODER raises every healthy chick. Absolutely sanitary. Get our free poultry book.

HUMPHREY, Flag St. factory, Joliet, Ill.

A Well-Behaved Lamp

Trust it not to fume. Needs little attention. Electric burner never clogs. Every part about **WEIR INCUBATORS AND BROODERS** is constructed to raise hardy, profitable chicks. Sensitive regulator—even heater—fresh, clean, warm air for chicks and eggs. \$5 up. Catalogue free.

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382 FIRST PRIZES AWARDED PRAIRIE STATE INCUBATORS AND BROODERS. The United States Government continues to use them exclusively; also the largest poultry and duck breeders. Our catalogue will interest you. Send for one. **Prairie State Incubator Co., Homer City, Pa.**

The Bantam

Send us all. One customer writes he has raised 93 chicks from 10 eggs. The Bantam hatches every fertile egg every time. Catalogue proves it—sent free.

Buckeye Incubator Co.,
Box 55, Springfield, O.

VICTOR BOOK tells why our machine is preferred by users and all about artificial incubation. There's pointers that may mean dollars to you. We pay freight. Guarantee goods as described or money back. The book is free. Write for it to-day. Postal will do.

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30 DAYS FREE

Why buy a "pig in a poke" when you can get the **ROYAL INCUBATOR** on 30 Days Free Trial. Absolutely self-regulating. Try it and keep it (only) if you like it. Send for catalogue and free trial plan. With poultry paper one year ten cents.

Royal Incub. Co., Dep. 16, Des Moines, Ia.

MADE GOOD MONEY IN POULTRY RAISING.

Great Quantities of Eggs and Poultry Required to Supply the Demand.—A Splendid Opportunity for Farmers to Earn Money.

Written for Green's Fruit Grower.

Few farmers realize what enormous quantities of eggs and dressed poultry are required by the great consuming population of the Eastern states, and what millions and millions of dollars are paid out there annually for poultry products. Probably fifty millions of dollars is below the sum paid for eggs and poultry each year, by New England and the Middle states, and that, too, for eggs and poultry produced outside of those states. This seems incredible at first thought, but when we learn that Massachusetts alone pays out about twenty millions of dollars annually for poultry products from outside the state, and that there is less than four million dollars worth produced each year within the state, we begin to get an idea of the possibilities of the business of producing eggs and poultry for market.

Boston is known to be the most fastidious of markets for all kinds of food products, and especially for eggs and poultry. "If you have an extra fine article send it to the Boston market, you will receive the highest price for it there," is the motto of the growers of the very best poultry everywhere. It is the same with eggs. It is only necessary that they be up to the desired quality in size, color and freshness for them to receive a substantial premium over the regular market price.

Boston takes the lead in New England, where Boston leads the other New England cities follow, and as poultry meat and eggs are the choicest articles of food in common use it is not surprising that very great quantities of these two food products are annually consumed there. Not so many scores of years ago New England was self-supporting; the farming lands in the vicinity of its cities and towns furnishing the food-products to supply the needs of the local markets; but there has gradually come about a great change in conditions, the rapid growth of large manufacturing centers has greatly multiplied the

numbers of consumers, with comparatively little, if any, increase in production.

Boston paid out \$7,107,903.75 for eggs, and \$4,606,817.50 for dressed poultry in the year 1902, (the statistics for 1903 are not yet made up), making a total of \$11,614,721.25 for those two articles of food; and this great sum was paid for poultry and eggs coming to Boston by freight and express. These figures are from the Chamber of Commerce report, and are official; and from those official reports for several years past we find that the receipts of poultry and eggs in Boston has practically doubled since 1890. In that year the total number of cases of eggs, (thirty dozen cases), that came to Boston, was 625,581; and of dressed poultry 7,658 tons. In 1902 the receipts of eggs had grown to 1,053,165 cases and of poultry 17,334 tons. The egg receipts had not quite doubled, and poultry receipts had more than trebled in the thirteen years.

Inquiry reveals that in the larger cities of the state the same conditions prevail. Worcester reports receiving about 150,000 cases of eggs from outside the state. Springfield, 100,000 cases; Fall River, 70,000 cases, and the total for thirteen cities investigated shows about 605,000 cases of eggs received, of a value of \$5,433,750, and a similar proportion of dressed poultry gives us a value of \$3,219,155; the grand total of eggs and dressed poultry received in Boston and the thirteen other cities being \$20,263,686. We find the same conditions obtaining in other New England cities, as Providence, Hartford, New Haven, etc., and New York city receiving something over three million cases of eggs a year. Then there is Philadelphia, the large cities of New Jersey, Albany, Buffalo, Rochester, Syracuse and a half-score more in New York state. Our estimate of fifty millions of dollars a year begins to look decidedly conservative!

Not only is the consumption of eggs and poultry rapidly increasing, but there is a steady increase in prices, also. Especially is this true in the past year, this one year alone showing an advance of from twenty to twenty-five per cent. in prices, and at this writing prices bid fair to be well maintained. With the addition of about a million a year to our population and a steady decrease in total production of such meat-foods as beef and mutton, it seems inevitable that poultry and eggs will continue to be increasingly in demand, and prices will probably be well sustained. As eggs can be grown at a cost of about ten cents a dozen for food and the average wholesale price for them by the year is about twenty-five cents a dozen there is a pretty fair margin of profit in the business, and as eggs are an all-the-year-round cash article it is surprising that our farmer-readers do not increase their poultry work and put into their pockets more of that colossal stream of dollars the great consuming population is paying out for eggs every year. The way is simple and easy; it is simply to keep more poultry, keep better poultry, and take good, commonsense care of it.

A farmer who was addressing a meeting of poultrymen a few weeks ago stated that it was a not at all difficult proposition to make a hen pay two dollars a year profit, over and above the cost of her food, and that if a man said he couldn't make his hens pay that much profit the reply to make is: "The fault lies with the man, not with the hens; the hens will do their part if the man will give them a chance." There is a big nugget of truth in those few words, and it is but truth to say that where the hens do not pay a goodly profit it is the fault of the man and not of the hens. We want to interest Fruit Grower readers to keep more and better poultry, to the end that they get a share of the great heap of dollars the public is paying for them. Do you want to get an extra hundred dollars a year? Keep fifty more hens and take good care of them. Do you want to get 400 additional dollars a year? Keep 200 more hens and take good care of them. If you do your part the returns will be as certain as the interest from a government bond. We purpose to discuss questions relating to the care and management of poultry in these columns, in the hope to help our readers into the better methods of poultry keeping and the resulting better profits. We will welcome questions to be answered through our poultry columns, and will welcome experiences in poultry work which will be helpful to others. There is "Good Money Made in Poultry Raising," we are certain of that; let us help you to your share of it.—A. F. Hunter.

Statistics show that in one year a hen eats food equal to sixteen times her weight. Her food costs about 1 cent per pound, while her eggs bring about 18 to 20 cents per pound. The yearly product will sell for at least six times the cost of food.—"Egg Reporter."

Save the Best.—Let no inducement in price make you so forget your own interests as to part with your best birds—for you will have cause to regret it ever afterwards when you see the quality of your birds deteriorating instead of improving; old breeders know the truth of this full well, and do not require any advice on this subject, but there are scores of young breeders who have a lot of very creditable birds to dispose of for the first time. A fancier with an "eye to business" comes along, admires the birds, selects a number of the very choicest, such as should never leave the loft, offers what appears to the young breeder a very fair sum, and he lets them go, thinking he has made a big bargain of it, whereas he has really sold his "best tools," and he will find it utterly impossible with the very best he has left to raise scarcely a single bird as those he sold, and if he persists in selling his finest birds for two or three seasons, he will soon have nothing but scrubs to sell, which no one wants at any price. The best and only way for a fancier to do who wishes to improve the quality of his birds and bring up the standard, is to take the first pick himself, taking all he may need for his own breeding loft for the following season from his flock of youngsters before parting with any, and then he can sell as many of the remaining birds as he may be able to find customers for.—"Nebraska Farmer."

By a series of experiments it has been discovered that the feeding of green cut bone increases production of eggs. Different parts of ordinary market bones upon analysis were found to contain in abundance the ingredients which go to make up the growing chick, and in wonderfully close proportions the different parts of the complete egg.

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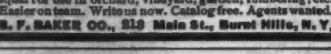
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SEARS, ROEBUCK & CO., Chicago.

Possibilities of a Quarter Acre.

Written by a subscriber of Green's Fruit Grower.

Continued.—A widow lady, with sick daughter who has been her main support, has moved on to a small rural place hoping to make a living there. Her experience is given in full as follows:

MOVING TO THE FARM.

Mrs. Ellis thought a little. She was not rash but decided Margaret's plan a good one. Next morning all were up before daylight. Soon after breakfast was finished a rattle of wagons was heard and Uncle Jim, his son Robert, and one of their neighbors came in and in an hour the furniture was loaded and being carried toward the new home. Aunt Laura soon came in the big spring wagon and Mrs. Ellis stepped into it, followed by Margaret and Ellie. The chickens had gone on ahead under Mark's supervision. They arrived at Norfield as soon as the furniture did and assisted by two friendly neighbors the bare interior of the house soon assumed a home like aspect. Grandfather had arrived before them with his cow. The bees he had brought the day before and they were under the great lilac bush buzzing away. The chicken yard occupied a corner of the lot and here were placed the coops for the forty-six little downy chickens. The hen-house was built close to the back fence.

Mark and his mother planted onions, lettuce, radishes, peas and beets. Spring had come a little late but it was now making up for lost time and the days were almost like those of summer. The front yard, which Ellie said was "big as a sheet," had six large rose bushes in it and the short path leading to the front door was bordered on each side by old-fashioned flowers. The side lawn was well planted too, mainly with roses. There seemed to be a rose bush in every available place for old Mrs. Ellis had loved them. Margaret thought everything promised well for a good crop of roses. She carefully clipped away the dead branches and brought manure to put over the roots of each. Each day her step grew more elastic and her cheeks pinker.

Mark milked about four gallons a day. Ellie delivered the milk to customers. They sold twelve quarts each day at six cents per quart. They churned enough butter for their own use. Ellie was a great help and her mother promised to pay her twenty cents a week. She fed and watered the chicks each day, cutting grass for the hens that were occasionally imprisoned. Mark, heroically giving up many pleasures where pocket money was necessary, had asked his uncle to pay him for his work the first of October all in a lump. Ellie asked her mother to do the same.

On Friday following her removal to the village home, Mrs. Ellis went to town taking six small pies, two cakes, a large jelly-roll and a French cream cake; five bunches of rhubarb, ten bunches of asparagus and two quarts of horse-radish. She had no difficulty in disposing of these items for which she received \$2.78. "Almost \$2.50 clear money," she said on returning home. "That is paying us well for yesterday's labor." Mrs. Ellis had brought back a goodly supply of mending at which they soon went to work.

It was the grandfather's delight to keep the garden beds clear of weeds and attend to his fruit trees and bees. Margaret kept the lawn trim with a mower. There was not one drone in this busy hive.

Each week Mrs. Ellis added to her stock of produce from the garden. Her crisp lettuce, radishes and onions brought good prices. She sold no eggs for they were cheap and could well be utilized at home. She was economical in cooking but not stingy. There is a wide difference between the two terms. Her grocery bill, not counting the sugar, never exceeded five dollars a month. She churned twice a week and sold a gallon of buttermilk each week. She also sold two quarts of cottage cheese each trip receiving fifteen cents per quart.

The first week of June old Mr. Ellis took sixty pounds of honey from his hives. He sold it at fifteen cents per pound.

Mark would rise early and after milking would take the cow with him to his uncle's pasture. Margaret watched her roses as a miser his gold. By July she had cleared \$4.35.

Mrs. Ellis sold the finest strawberries and put the smaller ones in pies. The cherries were sold by the quart and some made in pies. They did not forget to put away half a dozen jars of canned cherries. Then followed raspberries, gooseberries and currants which were made the most of. After these the mulberry tree bore much fruit and the customers liked mulberry pies. She now made a dozen small pies each week and

all were sold. They had planted plenty of peas and butter-beans. They sold all the peas at a good price. When they were gone they began selling butter-beans. Between the potato rows sweet corn was planted early in the season. Between other rows about the middle of July soup beans were planted. In the rest of the lot were planted sweet potatoes with cabbage between the rows. The middle of August some of these were large enough to sell. After the potatoes were dug turnip seed was sown in the rows, and in the garden beds where the vegetables were gone. Cabbage which had been planted between the sweet potato rows was stuffed into mangoes and sold at a fair profit. A pickle patch was planted and these helped make up the widow's supply of produce. Wax beans, tomatoes, and beets she also sold. The finest and largest of everything only was marketed.

The chickens did well. Ellie gave the chicks cooked eggs the first week, feeding often. After that she gave them refuse wheat and corn bread. When the old hens left the chickens to shift for themselves she gave a variety of food including oats and bran mixed with scraps from the table, moistened with hot water; corn with a little oats. She scattered lime about the chicken yard and in the hen-house which she kept clean. Ellie tied the old hens with long strings to stakes in the daytime and at night put them in coops. Soon after the old hens left the chickens they began laying. Five old hens were bought by Mrs. Ellis and set on eggs the first of June. By the middle of that month the April chickens were large enough to sell and brought 35 cents each. Soon after the first lot was disposed of others were hatched and Ellie found she had five dozen more little biddies to care for. She lost five of this lot and four dozen were sold in September at 20 cents each.

All the fruit trees did well but the grapes were not entirely a success. Margaret made grape jelly and her mother sold twenty glasses of this at 10 cents per glass. They also made jelly from pear and peach parings to sell. Everything possible was utilized.

Milk netted a fine profit. The first month they sold twelve quarts each day at 6 cents a quart; the next month ten quarts a day; the third and fourth months pasture was not good and they sold but seven quarts per day. In September the pasture was better and eight quarts were sold each day. They received from the sale of milk alone \$80.76. Mrs. Ellis looked at her notebook after she took home some mending the last week of September and found she had averaged almost \$7 a month for five months. The first of October she "balanced her books" as she laughingly said. The total amount brought in was \$286.51. The sum expended, including what she paid Ellie for her summer's work, was \$67.40. Total profit being \$219.11.

"I consider we've been well paid for our work," said Mr. Ellis to the family, as they sat around the open fire in the sitting room that evening. Mark was beside her proudly conscious of a new suit of clothes which he had bought with his own money, also three good story books for boys, and a year's subscription to a young people's paper paid. He felt very proud of his summer's work. They had long been readers of Green's Fruit Grower.

"I shall buy a new winter dress," said Ellie, fingering her money lovingly. Mrs. Ellis wisely encouraged this plan for she knew Ellie would enjoy it more knowing that her own money had bought it.

"We'll all take a trip to town this week and buy something nice," said grandfather.

"I think I've already had pay for my work," said Margaret, "I feel perfectly well and that is worth more than all the money in the universe."

"Well," said Mrs. Ellis, "we don't have to worry about food or rent this winter. I shall still have mending to do and will bake for my customers until the bitter winter weather comes."

"Our winter prospect is very bright!" said grandfather as he glanced cheerfully round the familiar room.

One day late in October Margaret came into the sitting room, her cheeks glowing, her step elastic. She looked a very different person from the pale, languid girl of the spring before.

"Mother," she said, "Miss Thornton's sailor sweetheart has returned and they are to be married soon. She resigned her position last evening and the position is mine at \$50 a month. Isn't it glorious?"

"Everything has worked out all right for us," said Mrs. Ellis. "It is well not to worry, but trust in Providence and do our best."

Find your purpose and fling your life out to it, and the loftier your purpose is, the more sure you will be to make the world richer with every enrichment of yourself.—Phillips Brooks.

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EDITOR GREEN'S FRUIT GROWER,
Rochester, N. Y.

Things That Never Die.

The memory of a clasping hand,
The pressure of a kiss,
And all the trifles, sweet and frail,
That make up love's first bliss;
If with a firm, unchanging faith,
And holy trust and high,
Those hands have clasped, those lips have met—
These things shall never die.

The cruel and the bitter word,
That wounded as it fell;
The chilling want of sympathy
We feel, but never tell;
The hard repulse that chills the heart,
Whose hopes were bounding high,
In an unending record kept—
These things shall never die.

—Charles Dickens.

Noteworthy Relics of Washington

Written for Green's Fruit Grower by G. B. Griffith.

While the late Governor Brown of Florida was in Key West, some time ago, he was presented by Hon. A. Paterson with a miniature bust of General Washington, found a few years before in the neighborhood of Mr. Paterson's premises, imbedded in the limestone which forms the island. This curiosity has been handed down in Gov. Brown's family. The bust is of marble, and is evidently the work of a master. The expression is said to be identical with that of the famous statue of Washington at Richmond, allowed to be the best likeness in existence. The little bust is said to be in a state of perfect preservation; all the delicate chiselling in the plaits of a ruffled shirt remaining as sharp and well-defined as ever, and the marble without discoloration. Across the shoulders is inscribed the word "Washington"—a spelling which seems to indicate an Italian origin. In the same spot two English guineas were found, the dates and inscription of which we

and glasses. She had never been a mother herself—which enabled her give much better advice, and in larger quantities than if she had been. A very wise professor assisted her to demonstrate how your baby, not theirs, should be sterilized and pasteurized, bandaged, labeled, and laid neatly away; fed by the ounce and by the clock, but never cuddled or kissed; till one could but wonder why the Omnipotent Divine Mind, in His infinite wisdom, does not give these precious little ones at once into the care of these wise gentlemen and becaped and beaproned young women, instead of to us poor, foolish mothers, as He always insists on doing. What a mystery!

"Is it fair to paint the happy wife and mother, 'the domestic woman,' as a dull, mindless drudge, as some women writers do? Do we not all know brilliant, learned women, who keep abreast of the times and are good wives and mothers; women who are an inspiration to their husbands, and whose children rise up and call them blessed? Rather let us paint the domestic woman as she is quite as apt to be—too happy in her family and home to dream foolish dreams; too busy to realize that marriage is at best long reaches of boredom, as one writer tells us it is. Make women strong, sensible, and cheerful, intelligent and courageous, the loving center of the real home. Then we will have a picture of the true womanly woman that will silence her critics."

Judge and Juror.—The judge had had his patience sorely tried by lawyers who wished to talk and by men who tried to evade jury service. Between hypothetical questions and excuses it seemed as if they never would get to the actual trial of the case. So when the puzzled little German who had been accepted by



The accompanying illustration is from a photograph taken on a fruit farm of our subscriber, D. M. Dickerson, S. Dakota. Fruit farms in South Dakota are not so plentiful as they are in Western New York. Mr. Dickerson is a banner fruit grower in his part of the country. Some months ago he wrote an essay on strawberry culture which was published in Green's Fruit Grower. He has an interesting lot of young people engaged in gathering fruit as is shown by the photograph. We wish our fruit growing friends of S. Dakota the best success. Dakota is a wonderful country. I have spent considerable time there and know whereof I speak.

have not learned. All were probably deposits by some free-booter of the olden time.

The family of the late William G. Webster of New Haven, Conn., had not long since, and may still possess an original miniature portrait of General Washington, which is one of six, taken at the same time from actual sittings by the Father of His Country, and given to his relatives, members of his family, of whom Mr. Webster's wife was one. Mr. Webster also had a snuff box, formerly carried by the wife of General Washington. This relic, still well preserved, is of gold, perfectly plain, of a circular shape, about two inches in diameter, and less than an inch high. Mr. Webster at one time had four mementoes of our illustrious first president, two of them being miniatures, and the others, a watch and the snuff-box above mentioned. In the back of the miniature, is a portion of the hair of Washington and his wife, braided together. The whole is set in a plain gold case.

Henry Clay, during a speech in congress once stated that he had in his parlor, at Ashland, a broken goblet which was used by Washington in camp, during the revolutionary war, and said that no other object in his possession was so much valued, and none which was looked on with so much interest by those who visited him. The writer would much like to know who now holds this valuable and unique relic.

Poor Mothers.—"According to the world's programme as laid down for us, we were created—or evolved, as suits your view—to be the mothers of the coming generation," says Mrs. Frank Cronice. "This was our manifest destiny, and we accepted it as best we might. The increase in the world's population shows that some of us have been rather busy. Think, then, how discouraging and humiliating it is to be told that we are poor mothers; in fact, that we know nothing about the subject at all. I know this to be true, because I heard it from the lips of a very young woman in cap

both sides jumped up, the judge was exasperated.

"Shudge!" cried the German juror. "What is it?" demanded the judge. "I think I like to go home to my wife," said the German.

"You can't," retorted the judge. "Sit down!"

"But, Shudge," persisted the German, "I don't think I make a good shuror." "You're the best in the box," said the judge. "Sit down."

"What box?" asked the German. "The jury box," said the judge.

"Oh, I thought it was a bad box that peoples gets in sometimes."

"No," said the judge; "the bad box is the prisoner's box."

"But, Shudge," persisted the little German, "I don't speak goot English."

"You won't have to speak any at all," said the judge. "Sit down."

The little German pointed at the lawyers to make his last desperate plea.

"Shudge," he said, "I can't make nothings out of what those fellers say."

It was the judge's chance to get even for many annoyances.

"Neither can anyone else," he said. "Sit down."

With a sigh, the little German sat down.—Brooklyn Eagle.

I pluck an acorn from the greensward and hold it to my ear; and this is what it says to me: "By and by I will furnish shade for the cattle. By and by I will furnish warmth for the home in the pleasant fire. By and by I will be shelter from the storm to those who have gone under the roof. By and by I will be the strong ribs of the great vessel, and the tempest will beat against me in vain, while I carry men across the Atlantic." "O foolish little acorn, wilt thou be all this?" I ask, and the acorn answers, "Yes, God, I will."—Lyman Abbott.

The snob thinks most of the treatment he receives from the world; the gentleman thinks first how he shall act courteously to others.

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Let Down the Bars.

Written for Green's Fruit Grower by
Florence A. Hayes.

Let down the bars, let in the train
Of visions sweet that come again;
When the barefoot liddle o'er the way
Drives home the cows at close of day,
Through meadows bright with daisy stars,
Through shady lanes, through open bars.

Let down the bars, let in the scenes
Of days long past, of childhood dreams,
Of tinkling bells, of lowing herds,
Of deep dark woods where sings the birds,
Of sunlit days, of twinkling stars,
Let down the bars, let down the bars.

Let down the bars, let in the years
Of childhood joy unmixed with fears,
When like the lane the cows came through,
A flowery path sparkling with dew,
Life seemed one joyful, happy day
With nought to darken, nought that mars,
But home and rest beyond the bars.

Stepping Stones to Success.

Written for Green's Fruit Grower by Ida
A. Long.

True success is the result of untiring and persistent effort. We must climb life's ladder, round by round. To-day is ours, if we sow to-day, we may reap to-morrow. Years are made up of days, be careful how you spend to-day, remember it is worth just as much as any day in the year; try to accomplish something each day ere the sun goes down. In the quiet twilight hour, take a little time to reflect on the events of the day, which is just closing. Think what effort you have made to accomplish something, think of your bright prospects, or, if the day has brought you disappointment instead, study the cause, and resolve to make greater effort to overcome the difficulty to-morrow. Never give up to gloomy forebodings, keep a cheerful spirit, be hopeful and courageous; look out beyond the gloom, and remember that above the clouds the flowers are always blooming. We all find obstacles along the highway of life, but we must learn to plod and climb; these things are necessary to develop sterling qualities of character. Climbing the rugged mountains of life, makes strong manhood and womanhood. We cannot expect a peaceful march, through a beautiful country all the time, we must be willing to fight the battles of life, as we go, if we would gain the victory. Give, and ye shall receive, give kind words, give encouragement, give consolation, give smiles, give the cup of cold water to the needy and despondent. Learn to speak with a hearty good will. Don't grunt out your greeting, when you meet some one on the street who is less fortunate than yourself; it may be possible to help such a one to climb a few rounds higher on the ladder of life; any way, the "good morning" whose tone has a cheery ring, inspires every one who hears it, and the echo will rebound and strengthen you all through the day. People of all classes will admire you for this courteous habit, and in time, it will make you a host of friends. People who are selfish and discourteous cannot expect to be successful in life, in fact, such people do not deserve success. True courtesy comes from a pure heart. Let your motives be pure, your aims high. Press on toward the goal for which you are striving. Let nothing tempt you into crooked business ways. Remember character will endure, when fortunes are swept away. "A good name is rather to be chosen than great riches." A spotless character is worth more to us than anything else. Let us not forget that day by day we are building a character which will eventually exalt us or drag us down.

Tendency of the Breeds.—It should be borne in mind in breeding that the proper type is what should be aimed at, and not simply breed, bad as well as good. Plymouth Rocks can be raised, but the correct type of this breed should be aimed at. The English Dorking is recognized as the best type of fowl, and all breeders are trying to produce this style. The points to aim at are prominent, long, yet square, breasts, short legs, but with good width between. Low set birds with good breasts are wanted and these are the best to fatten. The utility type as against the purely exhibition is gradually forcing its way to the front. The broad and blocky Buff Orpington, showing the shortest legs of any bird, is a case in point. It is impossible to say which breed of birds are the best layers. It is the best to breed from the birds which you notice are the best egg producers from your own observation.—"Maritime Farmer."

This Will Interest Many.

F. W. Parkhurst, the Boston publisher, says that if one afflicted with rheumatism in any form, or with neuralgia, will send their address to him at 804-17 Winthrop building, Boston, Mass., he will direct them to a perfect cure. He has nothing to sell or give; only tells you how he was cured, after years of search for relief. Hundreds have tested it with success.

Rhubarb Healthy and Attractive.

I publish in this issue of Green's Fruit Grower the experience of a family in growing rhubarb, which will interest many of our readers. Rhubarb culture has not received the attention of the people that it deserves. While the markets are fairly supplied not one family in ten throughout the country has an amply supply in its garden. An incident that occurred at my Rochester home last year illustrates this fact. I have a bed of rhubarb in the corner of my grounds where it faces two streets. Rhubarb is grown there for ornamental more than for family use. This plant is a beautiful one considering its ornamental value only. Its leaves are large and luxuriant and its blossoms are attractive. As I have walked past this rhubarb bed I have seen little boys and girls moving along the sidewalk in a sheepish manner, holding their hands behind them, and acting as though they had something concealed under their coats or aprons. I have stopped to inquire and found that they had been gathering rhubarb stalks and were stealthily carrying them away. I inquired of these children what they were doing with the rhubarb and they said they were carrying it home to their mothers. They had no rhubarb in their gardens. Their mother was not able to buy it at the grocery, and they thought they were doing no harm in carrying off a moderate supply, but their secretiveness led me to doubt. I did not, however, chide them severely and the public at large continued to carry off stalks of rhubarb as fast as they appeared. I concluded at the end of the season that I might be doing the public good service by planting an acre of rhubarb and advertising that poor people of the city were free to come and help themselves to all they could take away for family use.

Do you realize that rhubarb or plant made into pies or sauce is exceedingly healthful, particularly at the season when it is used, early spring when apples and other fruits have about disappeared and when there is nothing of an acid nature to be found on the tables of most families? Rhubarb is better for sauce stewed and made similar to apple sauce than it is for making pies, and yet it is more largely used for pies than for any other purpose. If you have no rhubarb in your garden do not fail to plant a dozen or two roots this spring. If you have a large family plant one hundred roots. There is nothing easier to transplant than rhubarb roots. If you have an old root or two you can take it up, be careful and separate the roots the same as you separate the roots of peony plants; after being transplanted a large old plant separated would make a dozen smaller plants.

Advices from all poultry sections say that the farmers are holding the fowls and will carry the largest stock of old hens ever known. This, it is claimed, should make cheap eggs in the spring as the lay must be large. A hen can be kept the balance of the winter at little expense and she will produce at least three dozen eggs and then be ready for market next summer. The farmer is getting very wise as well as independent. The question is, with such a prospective lay of eggs, what will the price of next April eggs be? It would tend to conservative buying, but no man can tell how prevalent the speculative fever will be along the last of next March and the first of April. There is no doubt now that the amount of eggs stored next season will far exceed any ever known. Dear eggs last April, so considered then by the trade, have made all kinds of money this year, so why will not the storer take this for a lesson and store heavily?—Egg Reporter.

Overcrowding is one of the greatest detriments to success. The right number of birds on a given floor space will net more week by week than twice that number or less. It is always a good plan to ask yourself how much floor space you have, and then fit your flock to it—always the best specimens—and cull close to that line. In our northern latitudes the birds are often compelled to remain close housed days and weeks at a time, owing to stormy or cold weather. My rule is, measure the winter flock by the floor space at hand, supposing that every day will be a day of close confinement.—"Maritime Farmer."

The poultry business is all right so long as we confine our operations within the limits of our capacity. When we exceed those limits we find ourselves in trouble perhaps without realizing whence the trouble came.—"Poultry Advocate."

"Did your father strike you as being a man of brains?"
"No—as being on the front steps after midnight."—Cincinnati Commercial.

Value of an Aim.

Written for Green's Fruit Grower by
Virginia Gerard.

We are all striving for one thing or another; it may be that we live from hand to mouth in more ways than one—that the only aim we have is to get through the day's work with as little trouble to ourselves as possible.

We may have aimed high, so high that it will take years of hard work to attain our aim. In doing this we may hope to do good in the world,—to make it better and brighter for our being here—by occupying a certain place, by carrying out a certain principle or bringing about a change for the better in the morals of the men and women about us.

We may aim to become rich so that we may enter society or gratify our desires for the material things of life; then again we may hope to use our wealth in helping others to speed on. It may be those who are near and dear to us whom we hope to educate or it may be others whom we may hope to raise from the plane on which they now stand to a higher one.

It is well to have an aim—better to have a high one. Then to work for it early and late to seek to attain it. The truest pleasure in life is gained in this way. We get real pleasure from the anticipation. Even if we never attain the end, it is worth the striving. For this will keep our life fresh and sweet and wholesome. It will keep us from stagnation, suicide and death.

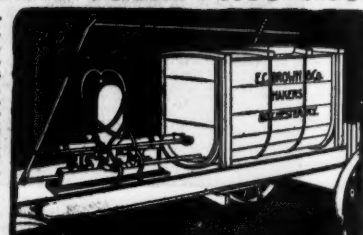
"I don't see anything in this new poem of Jones's," said the assistant editor.

"Of course you don't," replied the editor-in-chief, "because I opened it first and took a \$5 bill out."—Atlanta Constitution.

Fear nothing, blame nothing—so much as thy vices and thy sins.—Thomas a Kempis.

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Nothing short of the strictly power outfit approaches the efficiency of this hand power sprayer. Operating the "Hydraplex" pump is like play. A boy easily keeps a dozen Nozzles going, spraying 200 trees an hour. Brass working parts avoid corrosion. Valves and packing all exposed. Delivers spray as fog or mist and works at HIGHEST PRESSURE. Sold separately or with our 150 gallon tank, dirt proof, with outside strainer and mechanical agitator. May be used with any tank or barrel. The only hand power sprayer for large operations. We manufacture the largest line in America of high grade and power sprayers. Write for free catalogue of all sprayers and appliances. E. C. BROWN & CO. 465 State Street, Rochester, N. Y.



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Please mention Green's Fruit Grower.

Our Small Fruit Department

SMALL FRUITS.

Written for Green's Fruit Grower by Mrs. Ida A. Long.

How strange it seems that so many people are indifferent in regard to putting out small fruit when it can be done so easily, at such small cost and is so profitable, healthful and delicious. What a pleasure to pick the first gooseberries on an early spring day. How quickly the warm sunshine of summer ripens the currants, and what is more beautiful than a thrifty currant bush with its branches filled with red fruit? Then come to the strawberry patch, a mass of snowy white blossoms greet the eye; these are little white-winged messengers of promise and they tell us in their silent language, "God is love and he withholdeth no good thing from his children." A little later we behold the patch fragrant with a mass of delicious berries which would tempt the most fastidious appetite. We revel in luxury until the strawberry season is over, then begin to wonder how we can get along without those bright red berries on our tables. But we soon solve this problem, for the red raspberries are soon ready. Then follows the black raspberry, grapes, blackberries both early and late varieties. So you see God has provided us with a variety of fruit which follows each other in rapid succession through the entire growing season, and the end is not yet for in our cellars and fruit closets are found an endless variety of canned fruits, jellies, jams, preserves, etc., prepared by the good housewife for winter days.

Who that has enjoyed all those good things will say that small fruit does not pay a hundred fold for all the money and labor we spend in producing it at home? Children delight in them. It is a sad picture to see little children with pale and pinched faces gazing wistfully at the delicious berries in a neighbor's garden, while they must be deprived of this healthful, wholesome food simply because their parents neglect the little effort required to produce them. If we have not ambition to sow we surely cannot reap.

Then let us consider the profits to be derived from growing small fruits. First, it is a very healthful occupation. Women and children who are delicate and languid will find great restorative tonic in coming in contact with nature, and taking a course of treatment consisting of sunbaths, free inhalation of oxygen, and electric treatment from that wonderful battery, old mother earth. Many a doctor bill could thus be saved and many a life lengthened. Again, while money does not grow on bushes, some bushes produce a commodity which can readily be exchanged for money. I have a row of red raspberries about ten rods long from which I have sold \$10.00 worth of berries annually for a number of years. A neighbor sells from \$40.00 to \$60.00 worth of strawberries every year from his garden. Surely a few acres set to small fruits and properly taken care of would be a little gold mine at home. There is something fascinating about this occupation; our spirits grow younger, the air is exhilarating the birds sing around us, the bees are humming from blossom to blossom; the harmony we see in nature calms our tired nerves, the exercise sharpens our appetites and we sleep that kind of sleep from which one awakens rested and refreshed. Take my advice; it will pay you to raise small fruits.

SMALL FRUIT EXPERIENCE.

I am an advocate of close pruning where small fruit is concerned, yet I know from experience that this can be overdone, says Farmer's Voice. I had a blackberry patch which had been properly pinched back during the growing season and promised an immense yield. Following an idea which I had imbibed from reading I cut back the laterals in the spring severely. I thought I had done the right thing and expected a large yield of berries. Great was my disappointment, however, when the bushes put forth but few blossoms, and the crop of berries was scarcely one-fourth what it should have been. After a thorough examination and observation of some bushes in another part of the

field which had not been pruned at all, and which gave an abundant yield of fine berries, I came to the conclusion that I had been too thorough in the work of spring pruning. The next year I was careful to leave the laterals at least one-half longer than the previous season—result a full crop of the finest berries I had ever seen grow.

One day last summer a fruit tree agent called upon me while I was at work with my help in a patch of Columbian raspberries which were a sight to behold at the time, being weighted down with purple beauties that made the mouth water.

"What are these?" he asked in admiration.

When I told him, he seemed skeptical, at the same time showing a picture of a Columbian bush ten feet high, with a man reaching far above his head after the fruit.

"That is the way our Columbians grow," said he.

Laughing, I explained to him that the bush represented in his book was a monstrosity. The Columbian is a giant among raspberries, and might, if allowed to grow at will, become a small tree, but when properly pruned and pruned became a low, broad-branched bush capable of producing an enormous crop of large, luscious berries, year after year, without becoming exhausted. Proper pruning and cultivating is the grand desideratum in the small fruit business.

STRAWBERRY CULTURE.

The king of small fruits is the strawberry, says I. M. Merrill, Mich., in The Farmer's Voice. After years of experimenting I have settled down to the raising a few kinds, those of standard excellence and have found my trade growing year by year.

Where one is situated near a large city the strawberry grower experiences little trouble in disposing of his crop, but away out in the country, away from the great centers of trade, the problem is a far different one, and unless a man is determined to succeed and has an aptitude for the work I would advise him to let small fruit entirely alone.

Fruit raising is a business by itself and will ever remain such. The general farmer had best not dabble in it.

To become a successful fruit raiser requires, as I have said, an aptitude for the work, indefatigable industry and a large degree of patience. Possessing these there is no danger of a failure.

In my own case I found that it is one thing to raise the fruit and another thing to sell it. People can be educated up to the fruit habit.

When I first set out with a few crates of berries to seek customers I was truly surprised at the lack of interest displayed by people in general. My first customer was a farmer who reckoned he'd take a quart for the woman and young ones.

Still another farmer, a wealthy cattle raiser with a large family, refused even to look at my wares, sniffing at the idea that "strawberries" were in any way necessary for the family table.

But mark you, this same man is now an eager customer of mine to the tune of from fifteen to twenty crates of berries every year, with no grumble at the price.

He says his folks can't get along without the berries both fresh and canned; and yet before I began selling, the only small fruit the family saw, from year's end to year's end were a few small wild berries.

I had many amusing experiences during my first year in the business, and was at one time well-nigh discouraged, but came out with flying colors in the end and lived to rejoice over the victory.

A lad was interested in the compass, and in explaining it the teacher said: "You have in front of you, the north; on the right, the east, on your left, the west. What have you behind you? After a few moments' reflection, the boy exclaimed: 'A patch on my pants,' and to make the information more emphatic, he continued in a shamefaced manner: 'I knew you'd see it. I told ma you would.'"—Marion Co., Ind., Mail.

A sentimental city girl was out in the country visiting recently, and back of the barn she espied some calves. "Oh, the pretty, sweet little cowlets," she said gushingly. "They ain't cowlets," gruffly replied the hardened son of toll, "them are bullets."—Marion Co., Ind., Mail.

Citizen—How are the trains on your road? Pretty regular?
Subbubs—Oh, no; they vary.
Citizen—Not on time, eh?
Subbubs—No; they're invariably late when you're early, and early when you're late.—Philadelphia Press.

Thousands of Women Have Kidney Trouble and Never Suspect It

Didn't Know I Had Kidney Trouble.

I had tried so many remedies without their having benefited me that I was about discouraged, but in a few days after taking your wonderful Swamp-Root I began to feel better. I was out of health and run down generally.



MRS. A. L. WALKER.

had no appetite, was dizzy and suffered with headache most of the time. I did not know that my kidneys were the cause of my trouble, but somehow I felt they might be, and I began taking Swamp-Root, as above stated. There is such a pleasant taste to Swamp-Root, and it goes right to the spot and drives disease out of the system. It has cured me and I cheerfully recommend it to all sufferers.

Gratefully yours,
MRS. A. L. WALKER,
46 West Linden St., Atlanta, Ga.

To Prove What SWAMP-ROOT, the Great Kidney, Liver and Bladder Remedy Will do for YOU, Every Reader of Green's Fruit Grower May Have a Sample Bottle FREE by Mail.

SPECIAL NOTICE—No matter how many doctors you have tried—no matter how much money you may have spent on other medicines, you really owe it to yourself, and to your family, to at least give Swamp-Root a trial. Its strongest friends to-day are those who had almost given up hope of ever becoming well again. So successful is Swamp-Root in promptly curing even the most distressing cases, that to prove its wonderful merits you may have a sample bottle sent absolutely free by mail, also a book telling all about Swamp-Root, and containing many of the thousands upon thousands of testimonial letters received from men and women who owe their good health, in fact their very lives, to its wonderful curative properties. In writing to Dr. Kilmer & Co., Binghamton, N. Y., be sure to say that you read this generous offer in Green's Fruit Grower. The Proprietors of this paper guarantee the genuineness of this offer. If you are already convinced that Swamp-Root is what you need, you can purchase the regular 50 cent and \$1.00 size bottles at the drug stores everywhere.

Chance of Long Life.—Taking a million as a basis of calculation, statistics show that at the end of 70 years there will still survive 312,000 out of 1,000,000 persons. At the expiration of 80 years there will be 107,000 survivors of the original million. When it comes to 90 years of existence, there is a terrible thinning of the ranks. Only 8,841 out of the 1,000,000, or 1 in 115, will live to that age. At 97, but 244, or 1 in 410, will be alive. At 98, half of these will have dropped out, leaving only 119 souls alive out of the original 1,000,000. One's chances to reach 98, according to these tables, is about 1 in 840.

Of the original 1,000,000 only 54 will live to see 99 years, or about 1 person out of 18,500. The century mark will be reached by only 23 out of the 1,000,000, or in other words, out of a group of 43,500 people born at the same time only one will fill out the century span of existence.

Only 1 in 3,000,000 persons will reach the age of 104 years. Just 1 in 5,000,000 can be expected to see 105 birthdays, and as to living to be 106 years old, these tables place that contingency as out of the range of practical calculations. Possibly one human being out of 10,000,000 who shall have seen the light for the first time in 1904 will be alive in 2010.

CANT DO IT.

One step won't take you very far, You've got to keep on walking. One paper won't tell what you are, You've got to keep on talking. One inch won't make you very tall, You've got to keep on growing. One advertisement won't do all, You've got to keep 'em going.

—Publicity, London.

Mr. Deadhead—Do you mind if I call you Cora instead of Miss Cora?
Miss Cora—No, indeed! I'm getting dreadfully tired of being called "Miss" anyhow.—Comic Cuts.

"Your salary isn't enough to support my daughter, sir."
"I'm glad you've come to that conclusion so early, sir."—Detroit Free Press.

Tear out old and good for nothing trees; plant good ones of the sorts which suit your local conditions.

WOMEN suffer untold misery because the nature of their disease is not always correctly understood; in many cases when doctoring, they are led to believe that womb trouble or female weakness of some sort is responsible for their ills, when in fact disordered kidneys are the chief cause of their distressing troubles. Perhaps you suffer almost continually with pain in the back, bearing-down feelings, headache and utter exhaustion.

Your poor health makes you nervous, irritable, and at times despondent; but thousands of just such suffering or broken-down women are being restored to health and strength every day by the use of that wonderful discovery, Dr. Kilmer's Swamp-Root, the great kidney, liver and bladder remedy.

Why Swamp-Root Gives Strength.

Not only does Swamp-Root bring new life and activity to the kidneys, the cause of the trouble, but by strengthening the kidneys it acts as a general tonic and food for the entire constitution.

The mild and extraordinary effect of the world-famous kidney and bladder remedy, Swamp-Root, is soon realized. It stands the highest for its wonderful cures of the most distressing cases. A trial will convince any one—and you may have a sample bottle sent free by mail.

In taking Dr. Kilmer's Swamp-Root you afford natural help to Nature, for Swamp-Root is the most perfect healer and gentle aid to the kidneys that has ever been discovered. Don't make any mistake, but remember the name, Swamp-Root, Dr. Kilmer's Swamp-Root, and the address, Binghamton, N. Y., on every bottle.

Jack-and-the Beanstalk Vine

(Pueraria Thunbergiana)

WATCH IT GROW!

Like the magic Bean Vine of the fairy tale, this wonderful vine, with ordinary treatment, will grow 70 feet in one season, turning everything it covers into leafy loveliness, and filling the air with the fragrance of its large clusters of wistaria-like blossoms. In three months this wonderful Chinese Vine progresses as much as most vines do in five years. Adaptable to porches, arbors, fences, rockeries, old trees, etc. Perfectly hardy, lasts twenty-five years or more.

Packet of 15 seeds, 10c.

Strong Plants, 40c. each; \$1 for \$1

Good, Thrifty Plants, One Year

old, 80c. each.

My catalogue, containing 500 varieties of Flower Seeds, Vegetable Seeds, New Plants and Rare Bulbs, at very low prices, sent with every order. You can't afford to be without it if you love flowers.

MISS MARY E. MARTIN

Floral Park, N. Y.

The Star Chimney Lock.

A patented lock to hold a lamp chimney on the burner, preventing it from being broken by draughts or falls in the hands of careless persons. Sample by mail, postpaid, ten cents. Agents wanted. **PAIES ROYALTY 50c.** Ed. Voss St., Camden, N. J.

SPRAY NOW

For San Jose scale and all fungus diseases use **THE PREVENTION SPRAY**, furnished complete with cart and barrel, combined hand and horse power. Sprays everything, trees, potatoes, etc. Catalogue free.

THOMAS PEPPER, Box 30, Hightstown, N. J.

Seeds, Plants, Roses,

Bulbs, Vines, Shrubs, Fruit and Ornamental Trees

The best for 50 years last, 1000 acres, 40 in hardy roses, including 45,000 of the famous **Crimese Rambler**, 45 green-house of **Princes of Wales**, **Flora**, **Geraniums**, **Ever-blooming Roses** and other things too numerous to mention. **Seeds, Plants, Roses, etc.** by mail postpaid, safe arrival and satisfaction guaranteed. **Elegant 128 page catalogue free.** Send for it and see what values we give for a little money. **number of collections of Seeds, Plants, Trees, etc., offered cheap which will interest you.**

THE STORRS & HARRISON CO.,

Box 53 PAINESVILLE, OHIO.

Please mention Green's Fruit Grower.

ANOTHER COMBINATION OFFER:

FARM JOURNAL, VICK'S MAGAZINE, GREEN'S FRUIT GROWER

All three papers one year for 60c., the value of one. There are others nearly as liberal on another page.

For Kidneys, Bladder and Rheumatism

New Discovery by which All can Now Easily Cure Themselves at Home—Does Away With Surgical Operations—Positively Cures Bright's Disease and Worst Cases of Rheumatism—Thousands Already Cured—Note Endorsers.

TRIAL TREATMENT AND 64-PAGE BOOK FREE.

At last there is a scientific way to cure yourself of any kidney, bladder or rheumatic disease in a very short time in your own home and without the expense of doctors, druggists or surgeons. The credit belongs to Dr. Edwin Turnock, a noted French-American physician and scientist who has made a life-long study of these diseases and is now



"None can say they are incurable until they have tried my discovery. The test is free."

in sole possession of certain ingredients which have all along been needed and without which cures were impossible. The doctor seems justified in his strong statements as the treatment has been thoroughly investigated besides being tried in hospitals, sanitariums, etc., and has been found to be all that is claimed for it. It contains nothing harmful, but nevertheless the highest authorities say it will positively cure Bright's disease, diabetes, dropsy, gravel, weak back, stone in the bladder, bloated bladder, frequent desire to urinate, albumuria, sugar in the urine, pains in the back, legs, sides and over the kidneys, swelling of the feet and ankles, retention of the urine, scalding, getting up nights, pain in the bladder, wetting the bed and such rheumatic affections as chronic, muscular or inflammatory rheumatism, sciatica, rheumatic neuritis, lumbago, gout, etc., which are now known to be due entirely to uric acid poison in the kidneys—in short, every form of kidney, bladder or urinary trouble in man, woman or child.

That the ingredients will do all this is the opinion of such authorities as Dr. Wilks of Guy's Hospital, London; the editors of the United States Dispensary and the American Pharmacopoeia, both official works; Dr. H. C. Wood, member of the National Academy of Science and a long list of others who speak of it in the highest terms. But all this and more is explained in a 64-page illustrated book which sets forth the doctor's original views and goes deeply into the subject of kidney, bladder and rheumatic diseases. He wants you to have this book as well as a trial treatment of his discovery, and you can get them entirely free, without stamps or money, by addressing the Turnock Medical Co., 787 Turnock Building, Chicago, Ill., and as thousands have already been cured there is every reason to believe it will cure you if only you will be thoughtful enough to send for the free trial and book. Write the first spare moment you have and soon you will be cured.

It would seem that any reader so afflicted should write the company at once since no money is involved and the endorsements are from such a high and trustworthy source.

FITS CURED IN TWELVE WEEKS

A Wonderful Remedy Is Found that Permanently Cures this Terrible Disease. YOU MAY TEST IT FREE.



S. J. Colwell, of Detroit, Mich., writes: "Our boy is entirely cured of those awful fits, and is now in school every day. He has not had a spell in many months, and before taking the twelve weeks' treatment of you, he had them daily. Our family doctor who knows of the cure thinks it wonderful, and took your address, saying he thought everyone afflicted that way should know of it. If you have fits, or nervous troubles of any kind, you should make a thorough test of this wonderful treatment at once. It will cure you. So positive am I that I can cure any case of fits, no matter of how long standing, that I will send a full two weeks' test treatment, with my 'Guide for Epileptics,' to any sufferer from fits." "So positive am I that I can cure any case of fits, no matter of how long standing, that I will send a full two weeks' test treatment, with my 'Guide for Epileptics,' to any sufferer from fits."

asking for it. In many cases the fits are stopped by this test treatment alone. It had cured thousands where all else had failed. Why not make a trial of it yourself, and learn what it will do for you. IT IS FREE. Address Dr. Chas. W. Green, 46 Monroe St., Battle Creek, Mich.

MY FACE IS WHITE AS MILK.
Soft as silk, no pimples. LANDOLF did it. Price \$1.00. Union Cream Works, Minneapolis, Minn.

Canning Business Information for a two-cent stamp.
C. G. WARFORD, Newburgh, N. Y.

HIGH GRADE HAIR SWITCHES
FINEST HUMAN HAIR, ORDINARY COLORS.
2 oz. 20 inches, \$0.50; 3 oz. 24 inches, \$0.55
2 oz. 22 inches, 1.00; 3 oz. 26 inches, 1.10
2 1/2 oz. 28 inches, 1.40; 4 oz. 30 inches, 1.60
Remit five cents for postage.
All short stem, three strands. Send sample of hair and we will match perfectly. SWITCHES sent by mail on approval, to be paid for when received if satisfactory; if unsatisfactory return to us by mail. Money returned if desired. All orders carefully and promptly filled. Illustrated Catalogue of Switches, Wigs, Curis, Bangs, Pompadours, Waves, etc., FREE. ROBERTS SPECIALTY CO., 113 & 114 Dearborn St., CHICAGO. THE OLD RELIABLE HAIR GOODS HOUSE. Please mention Green's Fruit Grower.

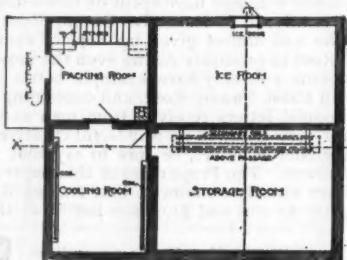
COLD STORAGE FOR FRUIT GROWERS AT MODERATE COST.

Written for Green's Fruit Grower by Madison Cooper.
CONTINUED FROM LAST ISSUE.



PERSPECTIVE VIEW OF PLAN NO. 1.

Plan No. 1, which is illustrated by perspective, plan and sectional views is suitable for a capacity of from 200 to 1,000 barrels of apples or other fruit, without change in arrangement of rooms and general plan of building. The cold storage room 12 feet in height, which may easily be maintained at a temperature of 30 degrees F. during the warmest midsummer weather, and a smaller room, marked "Cooling Room" on the plan, 8 feet in height, which is used for bringing down the temperature of the fruit partly before placing in the large storage room. Access to the storage room is only had through the cooling room, preventing at all times the inflow of warm air. This cooling room is most useful during comparatively warm weather, for instance, while storing the summer or winter varieties of fruit, or for cooling and storing Bartlett pears or similar fruit which require quick cooling. By placing the fruit over night in the cooling room a large part of the heat may be removed and then, when removed to the storage room no marked change of temperature



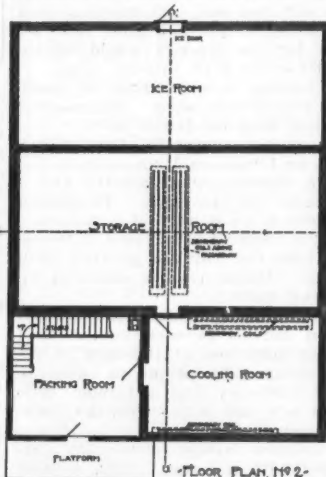
FLOOR PLAN NO. 1.

will take place. The cooling room has pipe coils of sufficient capacity to carry a uniform temperature of 30 degrees F. during the cold weather of fall and winter and this room may be used for permanent storage of the hardy winter varieties which are not placed in storage as a rule until cold weather in the fall. The cooling room is entered from a packing or receiving room, as it is generally called. The packing room may be made larger if desired, or it may be omitted if cold storage is to be built adjacent to a fruit packing shed already in use. The packing room is provided with a chimney, so that a fire may be built in extreme cold weather if necessary to prevent low temperature in the storage room and cooling room, or when it is desired to work in packing room in winter. From the packing room, stairs lead up to lofts above storage, packing and cooling rooms. These lofts are useful for the storage of empty packages, etc. The ice room adjoins both the packing and storage rooms, and is thus protected from the sun on two sides. There are no openings from the ice room to any part

of the building except to tank house for the purpose of raising ice to tank.

Plan No. 2 is in most respects like plan No. 1, but is adapted to larger houses. Plan No. 2 may be readily built ranging in capacity from 1,000 to 2,000 barrels. The estimate is based on a capacity of 1,500 barrels. The ice room is placed at one end of the house in this case and the storage room between the ice room on one side and packing and cooling rooms on the other. The storage, cooling and packing rooms bear the same relation to each other and are of the same height and similarly equipped as in plan No. 1.

It should be understood that both these plans include about as much space in the packing room and lofts as is contained in the storage rooms equipped with the cooling apparatus. In case it is desired to dispense with this storage space for empty packages, etc., as would be the case when the cold storage was built



FLOOR PLAN NO. 2.

against a barn or fruit house already existing, a considerable saving could be had by some slight changes in plans. Old buildings may be remodeled in most cases to good advantage and a handsome saving thereby affected. The estimates here given are for good, though plain construction, and cold storage houses built in this way will do good service for many years.

The estimated cost of constructing and insulating a cold storage house of 600 barrels capacity on plan No. 1 is \$1,365.00. The cost of refrigerating equipment, consisting of piping, galvanized iron work, etc., \$550.00, making a total of \$1,915.00. Plan No. 2 is estimated at \$2,545.00 for building and \$925.00 for equipment, total \$3,470.00. These figures are based on average costs and conditions, and will of course vary somewhat in different sections. Country locations are usually



PERSPECTIVE VIEW OF PLAN NO. 2.

Bright's Disease and Diabetes Cured.

Harvard University Acting as Judges.

Irvine K. Mott, M. D., of Cincinnati, O., demonstrated before the editorial board of the Evening Post, the power of his remedy to cure the worst forms of kidney diseases. Later a public test was instituted under the auspices of the Post, and five Cases of Bright's Disease and Diabetes were selected by them and placed under Dr. Mott's care. In three months' time all were pronounced cured. Harvard University having been chosen by the board to make examination of the cases before and after the treatment.

Any one desiring to read the details of this public test can obtain copies of the papers by writing to Dr. Mott for them.

This public demonstration gave Dr. Mott an international reputation that has brought him into correspondence with people all over the world and several noted Europeans are numbered among those who have taken his treatment and been cured.

The Doctor will correspond with those who are suffering with Bright's Disease, Diabetes or any kidney trouble, either in the first, intermediate or last stages, and will be pleased to give his expert opinion free to those who will send him a description of their symptoms. An essay which the Doctor has prepared about kidney troubles and describing his new method of treatment will also be mailed by him. Correspondence for this purpose should be addressed to IRVINE K. MOTT, M. D., 51 Mitchell Building, Cincinnati, O.

ICUREFITS

When I say I cure I do not mean merely to stop them for a time and then have them return again. I mean a radical cure. I have made the disease of FITS, EPILEPSY or FALLING SICKNESS a life-long study. I warrant my remedy to cure the worst cases. Because others have failed is no reason for not now receiving a cure. Send at once for a treatise and a Free Bottle of my infallible remedy. Give Express and Post Office.

Prof. W. H. PEEKE, F. D., 4 Cedar St., N. Y.

TAPE-WORM KILLED WITH BEAN. GUARANTEED. 100 STATE STREET, CHICAGO, ILL.

Darken Your Gray Hair

DUY'S OZARK HERB restores gray, streaked or faded hair to its natural color, beauty and softness. Prevents the hair from falling out, promotes its growth, cures and prevents dandruff, and gives the hair a glossy and healthy appearance. IT WILL NOT STAIN THE SCALP, is not sticky or dirty, contains no sugar of lead, nitrate silver, copper, or poisons of any kind, but is composed of roots, herbs, barks and flowers. **PACKAGE MAKES ONE PINT.** It will produce the most luxuriant tresses from dry, coarse and wiry hair, and bring back the color it originally was before it turned gray. Full size package sent by mail, postpaid, for 25 cents. **OZARK HERB CO., Block 31, St. Louis, Mo.**

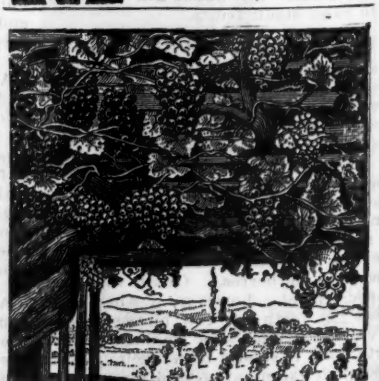
ASTHMA Cured to STAY CURED. Cures removed. Health restored. Attacks never return. Eat heartily, Sleep all night, do anything, go anywhere. No further need of medicines. **Book \$5 FREE.** Fifty pages, all about Asthma and Hay Fever. P. Harold Hayes, Buffalo, N. Y.

MORPHINE - OPIUM and LAUDANUM HABITS cured by a painless home treatment, endorsed and used by leading physicians. A TRIAL TREATMENT sufficient to convince you, sent FREE, with book of testimonials sealed. Correspondence Confidential. **OPA SPECIALTY CO., Dept. 57, SAN ANTONIO, Tex.**

WANTED Reliable men in every locality to introduce our goods, taking up show cards on trees, along roads, and conspicuous places. Commission of salary \$50.00 per month and expenses not over \$2.50 per day. Steady employment to good men. No experience needed. Write for particulars. **EMPIRE MEDICINE COMPANY, Buffalo, N. Y.**

TRY A WATER DOCTOR

And Get Well, Strong and Vigorous. If you will send me a sample of your morning urine I will tell you what disease you have, its cause and if curable or not, free of charge. You can be cured at home at a very small cost. I treat both sexes. Send four cents for mailing card and book for urine. Address **J. P. SHAFFER, M.D., Water Doctor, 213 Penn Ave., Pittsburgh, Pa.**



SECRETS OF FRUIT GROWING.

C. A. Green has been photographing orchards, vineyards, berry fields, etc., and has collected over 100 photographs in a new book with helpful suggestions to fruit growers, instructing the reader in the secrets of fruit growing. It is unlike anything published, illustrating and describing methods of planting and growing trees. The something every fruit grower should have. The price is 25c., but we will accept 10c. if you will mention this paper. Our new fruit catalogue will be sent in the same package. Address, **GREEN'S NURSERY CO., Rochester, N. Y.**

Felt Roofing 65¢
Per roll in lots of 5. This is by far the most popular roofing on the market. More than 40,000 rolls sold by us last season. Cheaper and Better than Shingles.

Made of two layers of heavy all-wool felt cemented together with water-proof asphaltum cement. Absolutely weather-proof. Practically fire-proof. Each roll covers 100 sq. ft. Send for full description, instructions and sample of the roofing.

Catalogue 115 and samples sent gratis. Our prices, quality considered, are absolutely lowest. Write today. Save dealers' profits. Address: **Montgomery Ward & Co.** 32 years World's Headquarters for Everything. Michigan Ave., Madison and Washington Sts., Chicago.

Please mention Green's Fruit Grower.

"Once Grown Always Grown"
The Maule motto for more than 25 years. My new

SEED

BOOK for 1904

Cost over \$50,000 to publish. If you have a garden you can have a copy for the asking. Send a postal for it to **Wm. Henry Maule, Philadelphia, Pa.**

Two Million STRAWBERRY PLANTS

Every one of them good honest plants with an abundance of branching rootlets. Good big crowns. Free from disease and in the most thrifty growing condition. Guaranteed true to name and variety. No other grower can produce anything better. Our

STRAWBERRY CATALOGUE

contains 50 pages of matter devoted exclusively to strawberries. Gives good, straightforward and honest descriptions of the 45 varieties we grow. Tells just what each has done in fruiting here on our own farm. Write for free catalog to-day, quoting low prices and discounts for large quantities. It's sure to make and save you money.

J. W. JONES & SON, Box 22, Allen, Md.

Strawberry Culture

A 60-page book, makes you understand the whole subject. Sent postpaid on receipt of 25c, silver or 10 stamps. Worth four times the price. Money back if you don't think so. Beautiful illustrated Strawberry Catalogue Free.

W. F. ALLEN, SALISBURY, MD.

BUSHEL CRATES

Our ventilated bushel crates are better and cheaper than baskets—4 cents each—made of best material. Shipped ready to put together. Booklet No. 8 full particulars free.

Seneca Cooperage Co., Seneca, N. Y.

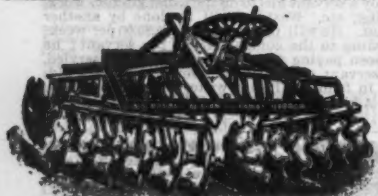
Hand Sickle and Tool Grinder

Best combination grinding tool made. To introduce in your locality send **\$1.95 FOR \$5 TOOL**. Money refunded if not satisfied. Live agents wanted. Address **Farmers' Supply & Mfg. Co.** 201 Lane & Trust Bldg., Milwaukee, Wis.

AMOUR BERRBERRY HEDGE.

An ideal hedge on a wild branch or fence. Will turn any kind of stock. Bears fruit equal to currants for making jelly or wine. Beautiful when trimmed as an ornamental hedge. Hardy, grows fast, grows anywhere in any soil. Free catalogue gives full description. Send for the 50c booklet. **The Gardener Nursery Co.** Box 717, Osgood, Ia.

THE KING OF HARROWS. CLARK'S DOUBLE ACTION CUTAWAY.



Makes plant food quick of toughest soil. Perfect connection with sub-soil water. May 21, 1903, in the drought, no rain for forty days, cold, bad every way. Clark's grass field will now cut two tons to the acre. July 2nd will surely cut five. If you doubt it come and see. Send for circulars. **Cutaway Harrow Co., Higganum, Conn.**

QUEER, BUT GOOD

Send for our free novelty catalogue with illustrations of guns, spray outfits, rare musical instruments, farm and orchard tools, talking machines and ingenious devices of all kinds. **Green's Nursery Co., Rochester, N. Y.**

Notes by the Editor.

The Editor's Work.—Much that our friends write for Green's Fruit Grower has to be re-written at this office. There are few people who can condense their articles. In every man's composition useless words are found. In my own editorials, on reading them, I find superfluous words and aim to strike them out. Since we never issue less than 110,000 copies of Green's Fruit Grower, each useless word must be printed 110,000 times. If in one article of one column there are twenty words that might be left out, and still not injure the sense or clearness, there would be saved the printing of 220,000 words.

Crazy.—George Francis Train has said "Some people think I am crazy. Suppose in a peanut village a cocoanut rolls in, what would the peanuts say about the big cocoanut?"

Wigwams.—How would you like to live in a wigwam during a severe winter when the temperature is 30 or 40 below zero. Many Indians thus live surrounded only by poles covered with skins of animals or with canvas. There is only one room in this wigwam; the inmates are not in danger of freezing. They sleep upon the ground. There are men and women who live without houses of any kind in localities where snow flies during the winter. This shows that man can become accustomed to almost any kind of exposure.

young or whether it is very hardy and long lived. Yes, Bismark bears fruit on very young trees. The fruit is remarkably large and handsome; it is an early winter apple not so good in quality as Hubbardston. It is perfectly hardy at Rochester, N. Y. I cannot say whether it is hardy for the Northwest but am confident it is hardy enough for Illinois.

Suckers.—These are queer fish, with noses puckered like the end of a rubber hose pipe. They lie upon the bed of streams with these sucker mouths placed close to the bottom, sucking in not only the water, but sediment and other food that comes down with the current. At night, in June, these fish run up from the larger streams or lakes into the little brooks. When I was a boy we made a hoop net. This we held in the brook while two of our party threshed the stream above, driving the suckers down into our net. There is something weird and fascinating about such fishing at night, the stillness broken only by the chirrup of half sleeping birds, or the rippling brook, as it forces its way over the stones.

How About Ginseng?—I have not taken much interest in ginseng since at best it is a humbug. There are no medical properties connected with ginseng. The misguided people of China simply have an opinion that they are benefited by the roots of ginseng, but as a matter of fact, they are no more benefited than

or arms above the trunk 3 to 4 or 5 feet long. After this cutting back a new thrifty head will form which will renew the life and productivity of the tree. This cutting back should be done before the tree leaves out. The writer has a piece of ground with woods on three sides of it, soil mixture of sand and clay and he asks if this will be a good place for peach trees. If it is on an elevation it may be but I would not consider the timberland very helpful and still possibly it might be in certain years. He would have to fight the rabbits, but I do not think rabbits destroy peach trees as they do other trees. We have a special harness for plowing in orchards to prevent injury to trees.

The Poor House Boy.—We given in this issue of Green's Fruit Grower an interesting account of a boy, who, having no relatives, was consigned to the poor house. This is a marvelous record and should be full of encouragement for our readers who are struggling with destiny. This boy, the second day after he ran away from the poor house, found a home in the country where he remained until he was 21 years of age. He is now a wealthy man with a fine family of children, all of which he has given an excellent education. After this experience why should any one be discouraged under the most adverse circumstances?

The Northern Slope.—Green's Fruit Grower often gets inquiries as to whether the northern slope is more desirable than the western, eastern or the southern slope. The northern slope has its disadvantages, but if you have good soil and give good culture you can grow good crops of small or large fruits no matter which way the land slopes. One advantage of the northern slope is that buds do not begin to open so quickly there as they would on the eastern or southern slope therefore the fruits will be later and less liable to be injured by late spring frost, or even by severe freezing in winter, in the case of peach trees. An eastern or southern slope will be earlier, thus you will get your strawberries growing there into market earlier and secure a higher price for them than you would on the northern slope; since the eastern and southern slope gets more sunshine, growth there should be more vigorous than on the northern slope.

The game of divorce is not worth the scandal.

Dr. Shoop's Rheumatic Cure

COSTS NOTHING IF IT FAILS.

Any honest person who suffers from Rheumatism is welcome to this offer. For years I searched everywhere to find a specific for Rheumatism. For nearly 20 years I worked to this end. At last, in Germany, my search was rewarded. I found a costly chemical that did not disappoint me as other Rheumatic prescriptions had disappointed physicians everywhere.

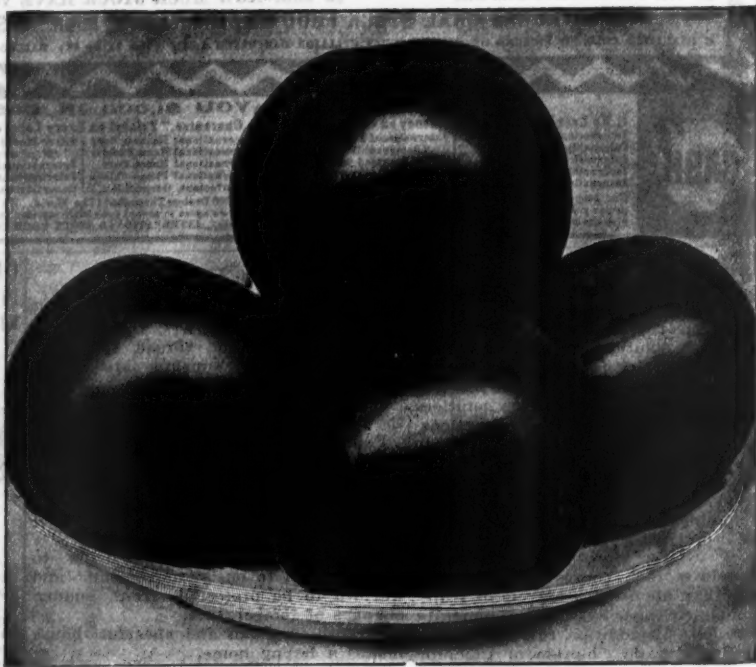
I do not mean that Dr. Shoop's Rheumatic Cure can turn bony joints into flesh again. That is impossible. But it will drive from the blood the poison that causes pain and swelling, and then that is the end of Rheumatism. I know this so well that I will furnish for a full month my Rheumatic Cure on trial. I cannot cure all cases within a month. It would be unreasonable to expect that. But most cases will yield within 30 days. This trial treatment will convince you that Dr. Shoop's Rheumatic Cure is a power against Rheumatism—a potent force against disease that is irresistible.

My offer is made to convince you of my faith. My faith is but the outcome of experience—of actual knowledge. I know what it can do. And I know this so well that I will furnish my remedy on trial. Simply write me a postal for my book on Rheumatism. I will then arrange with a druggist in your vicinity so that you can secure six bottles of Dr. Shoop's Rheumatic Cure to make the test. You may take it a full month on trial. If it succeeds the cost to you is \$5.00. If it fails the loss is mine, and mine alone. It will be left entirely to you. I mean that exactly. I don't expect a penny from you. Write me and I will send you the book. Try my remedy for a month. If it fails the loss is mine.

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RHODE ISLAND GREENING.

Rhode Island Greening.—For many years this has been one of the most popular of American apples. It is of large size, is remarkably productive and the fruit is considered the best of all for cooking. It is surprising what a difference there is in the cooking qualities of various apples. While the R. I. Greening cooks easily, makes delicious pies, sauce, etc., other varieties seemingly of as good quality are not desirable for cooking, but will remain hard, each slice appearing in the same form it was when placed in the oven. While the R. I. Greening trees are not quite so straight as they come from the nursery as are the Spy and Baldwin they make beautiful orchard trees of the largest size. At Green's fruit farm we had the R. I. Greening as large around as an apple barrel, with tops that extended 40 feet high and 30 to 40 feet in width. Such trees as these will bear anywhere from ten to twenty barrels of apples in one season. The fruit of the R. I. Greening is remarkably fair with few defective specimens. The fruit is in demand in all markets and sells readily at good prices. In addition to its desirable characteristics as a good cooking apple it is a good apple to eat. In planting an apple orchard do not omit R. I. Greening.

Questions Answered.—F. G. Holfinger writes that he has been a subscriber to Green's Fruit Grower for fifteen years and has been enlightened and entertained by reading its instructive pages. He asks if clematis vines will grow where water falls from the roof of the porch. I will say yes. The water falling from the roof will be an advantage to the clematis, or to any other vine. The clematis will grow in any fertile soil whether sandy or clay loam. If the soil is very hard clay at planting I would remove a portion of the hard clay and plant the roots of the vines in good loose garden soil. He also asks if Bismark apple trees bears fruit when very

they would be by eating turnips, perhaps not so much. Money is being made at present in growing ginseng, in selling the plants and the seed, also in growing the roots. But those best informed suspect that a time will come when the poor Chinaman will discover that ginseng is doing him no good and will stop paying high prices for it. When that time comes disaster will overtake ginseng growers. No such a disaster can overtake those who plant orchards of apple or other fruit trees, or plantations of strawberries and other small fruits, since these fruits are known to be healthful and desirable, hence they will never go out of fashion but will always be in demand in the markets of the world at large.

The World Moves.—Fifty years ago there were scarcely any women physicians in this country, now there are many thousands.

Pruning.—A subscriber to Green's Fruit Grower says he planted last spring apple, peach, plum and cherry trees and they all made a good growth. He asks whether the trees should be cut back this spring, and how much. I should not cut back the apple, plum, or cherry trees unless some one branch was far outgrowing the others. Such a branch might be headed back to correspond with the other branches. The peach trees should be cut back in March or April at least half of the growth made the past year. Notice that all trees are not pruned alike. Peach trees should be cut back every year half the past season's growth, but the other trees named do not need such cutting back but simply need to be kept in shape and the branches thinned out occasionally if they need it. He also has some old peach trees and asks how these should be treated. The best thing to do with old peach trees is to dishorn them; that is to cut off the branches leaving stubs

The Country Road.

From the busy fields of farmer-folk
It starts on its winding way,
Goes over the hill, and across the brook,
Where the minnows love to play;
Then, past the mill with its water wheel,
And the pond that shows the sky;
And up to the bridge by the village store,
And the church with its spire so high.

You would never think that the country
road,

From the hill to the store, could be
So long to a boy with an errand to do
And another boy to see.
You can never dream how short it is
From the farm to the frozen pond.
Nor how very much further it always is
To the schoolhouse just beyond.

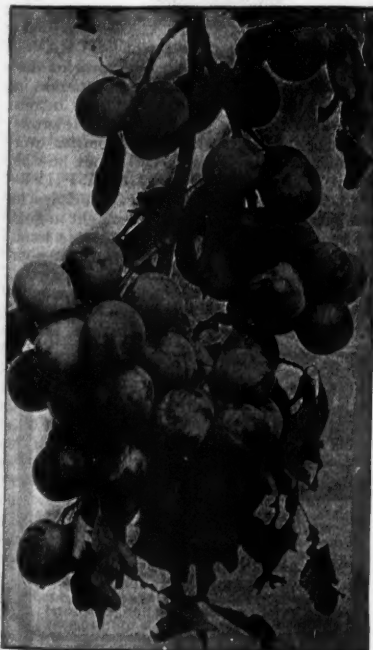
Oh, the country road! at the farther end
It runs up hill and down,
Away from the woods and the rippling
brook

To the tolling, rushing town.
But, best of all, when you're tired and sick
Of the noisy haunts of men,
If you follow it back, it will lead you home
To the woods and fields again.

—St. Nicholas.

Fruit Growing in Town and City.

H. A. Bassett of Ohio writes Green's Fruit Grower that he would like to get more information about fruit growing for people who do not own an acre of land but who simply have a lot from 100 to 200 feet wide by from 200 to 300 feet deep. He says he is not interested in hearing about shipments of thousands of barrels of apples, in picking and storing such large quantities for he has none to sell, but he would like to learn how to provide his home with the various large and small fruits in abundance. There is much to be said on this subject. There are few people who realize how much can be done in the way of fruit growing on a lot 50 feet wide by 150 feet deep, which is the usual size of many city lots, and which is much smaller than many village lots. I know of a lot in Rochester even smaller than the smallest one of these two and if the reader could see the fruit that grew upon this small lot stacked all at one time on tables or benches, I am sure he would be astonished. Grape vines were planted along the line fences and several were climbing around the house. It is possible to have from ten to fifty grape vines on such a small lot. There were peaches, apricots, plums, apples, quinces and pears growing upon this small place, probably not less than fifty trees in all. Such small pieces of ground can be kept fertile without difficulty in the city where manure is so plentiful, and the trees, plants and vines being so near at hand are always under the watchful care of the owner, and are not likely to be overlooked as are many trees and vines growing on large farms or plantations. Thus these fruits were well cultivated, were growing in fertile soil, were well pruned and if any insects attacked them they were sprayed. In one corner was a strawberry bed and there were a few currant and raspberry bushes. The owners of this little fruit plantation took great pride in their



BURBANK JAPAN PLUM
from tree grown on city lot.

fruits. Last fall they sent me a spray of plums which grew upon their place and which I had photographed. I was not able to show all of the fruit on this spray but the amount of fruit was something astonishing. The variety was Burbank plum. Remember that this little plantation had not been fruiting very long, possibly not over five or ten years. There may come a time later, when some of the trees may have to be cut out, otherwise the trees on this small piece of ground will become crowded. Aside from the large amount of

fruit secured from this city lot the place was beautified by vines trailing over the fences and over the gables of the house, and by the shade and blossoms and the fruit of the trees in the yard. There is danger in planting too largely on a small lot. For myself I would aim to have strawberries, currants, red and black raspberries, blackberries and grapes even if I had room for nothing else. After that I should plant peach trees, a few plum trees, quinces, omitting apples since apple trees occupy more room. I would plant dwarf pears. Peach trees more often bear fruit in abundance about a little home like this than when planted in large orchards.

A very useful practice in the windy west is to set a stake alongside of newly planted trees and tie the stem of the tree to the stake with some soft substance. If the tree is supported for two months it will become rooted and then the stake may be removed. Care must be exercised not to tie the tree too tight so that it will be confined in its growth.

Cooking apples must be sour or at least tart to be useful in the kitchen. For summer use we have found the Duchess and Red Astrachan the best. For fall use there is no better apple than the Maiden Blush. The Rhode Island Greening is the king of apples for cooking, yet it is closely followed by the Northern Spy. In the northwest the Rhode Island Greening will not flourish, but its relative, the Northwestern Greening, will take its place.

Not Irish.—"I suppose," said Mrs. Oldcastle, "your son, like most of the young men of the present day, is looking forward with a great deal of eagerness to his patrimony."

"Oh," replied the hostess, "there ain't any Irish blood in our family at all. Josiah's folks all came from Massachusetts and I'm from New Jersey stock."—Chicago Record-Herald.

A remnant of the Sevis tribe of Indians inhabits the island of Tiburon, in the gulf of California, and is ruled entirely by the women. Formerly the tribe numbered about five thousand, but is now shrunk to a few hundred, living a life of almost complete isolation, and refusing to intermarry with any of the Indians of the mainland. The woman is master of the household, and a council of matrons is at the head of public affairs.

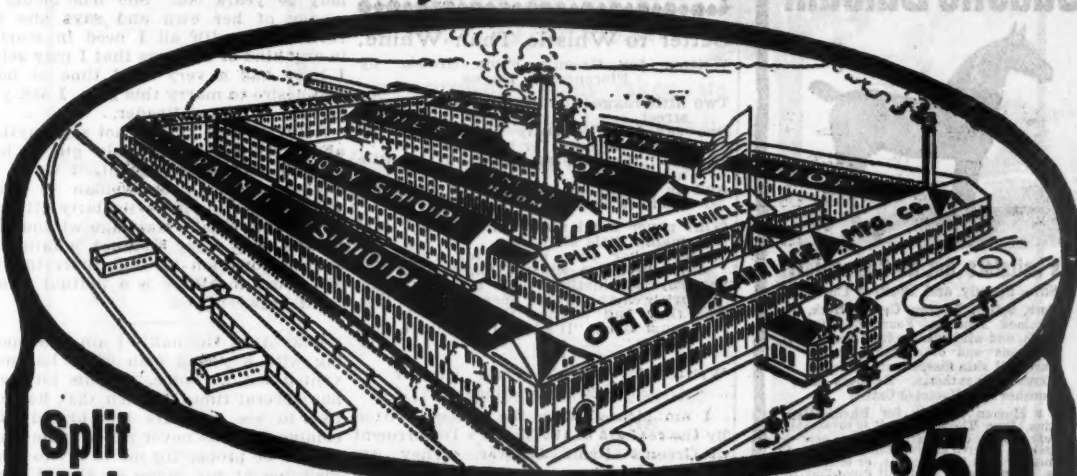
What Do We Mean Anyway?

George W. Borden writes Green's Fruit Grower that he is pleased with our magazine in general but that he finds conflicting advice given therein which confuses his mind. It is my intention to give the views of different people on various subjects and it must be expected that different people will have different ways of doing almost everything each one holding firmly to his own way. I, the editor of Green's Fruit Grower, do not consider myself to be as competent in all the affairs of life as to decide positively which is the best method, the best remedy or the best procedure; in fact that which is best for one locality may not be the best for another. A medical remedy which will be helpful to one patient may not be helpful to another afflicted with the same disease. My idea of a helpful journal is one that gives suggestions of various kinds, in fact, an assortment of suggestions, leaving it largely with the reader to select those that seem to him most reasonable for his particular vicinity. The opinions I express in my editorials I am personally responsible for. The things occasionally offered by my correspondents and the things clipped from journals I do not hold myself responsible for. They are simply suggestions that my readers should make the most of, making no use of them if they do not appeal to their better judgment. Such letters as Mr. Borden writes are exceptionally helpful to the editor. He makes many suggestions in his kind letter which I shall make use of in future issues. I wish many of my subscribers would favor me with criticisms or suggestions.

Temptation is not sin, yet much distress arises from not understanding this fact. The very suggestion of wrong seems to bring pollution with it. The poor, tempted soul feels as if it must be very bad indeed and very far off from God to have such thoughts and suggestions. It is the enemy's grand ruse for entrapping us. But it is no more a sin to hear these whispers of evil in our souls than to hear the wicked talk of bad men as we walk along the street. The sin comes only by our stopping and joining in with them.—H. A. Smith.

The number of stars visible to the naked eye is fewer than six thousand. The number of stars visible through the largest telescope is probably not fewer than one hundred million.

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to be what you want. Strawberries, Black-
berries, Currants, Gooseberries, Grapes,
all the small fruits, my own growing, at re-
duced prices. All groups on free circular.

ALLEN L. WOOD,
Wholesale Grower, Rochester, N. Y.

**YOUTH'S
DEPARTMENT.****Better to Whistle Than Whine.**

Written for Green's Fruit Grower by
Florence A. Hayes.

Two little ragged urchins passing along the
street.
One called, "The Daily News, sir?" the
other, "A shine for your feet."
There on the slippery pavement the little
newsboy fell,
And in a childish complaining voice his
troubles commenced to tell.

"Oh! never mind about this, chum," said
manly little shine,
"Just pucker your mouth for a whistle,
it's better to whistle than whine."
So bravely whistling their troubles away,
with earth's brave ones he fell in line,
For they had learned the lesson we all
must learn, "It's better to whistle than
whine."

Written for Green's Fruit Grower by
Mrs. L. Jennings.

I am pleased with the letters written
by the readers of the Youth's Department
of Green's Fruit Grower. They are
bright and cheery and I wish to answer
every one personally, but my time is tak-
en up with so many other duties it is
impossible. We must thank our kind
editor for a column in his paper, as well
as the many things of interest in its
pages. No one at this time need remain
in ignorance with so many helpful things
to read. As I am writing I am in sight
of what was once called a slashing, where
trees had fallen so thick it made a nice
hiding place for deer. When they were
driven from cover they would go to the
lake half a mile away, plunge into the
water and swim swiftly with only the tip
of the nose out of the water, and thus
get away. They could remain a long
time in water, sometimes until nightfall,
and then come out and go away in the
darkness. If there was a convenient
boat the hunter could go out in it and
sometimes get near enough to shoot the
deer and tow it to shore. At one time a
dog followed a deer far out into the wa-
ter; when the dog came within reach
the deer, with one foot, struck it with
such force as to cause it to sink and it
was drowned. Although none of the
present inhabitants remember when
there were Indians here many flint ar-
rows and some stone hatchets have been
found. It may well be asked where are
these Indians and what was their reason
for leaving? Some of them "Died not by
famine or lingering decay, the steel of
the white man has swept them away."

If we follow the career of every per-
son who has become truly great and suc-
cessful in the world we will find that at
some period they had to make sacrifices.
It is natural for most of us to avoid sac-
rifice and responsibility and it is un-
doubtedly being done by many to-day to
their detriment. I have heard young peo-
ple tell how they were going to get into
an easy place in life, where dollars would
be plenty, and where they would have
a good time. Then after such plans or
similar ones are made, the choice is re-
garded as supreme and irrevocable. Yet
life is more than a great joke as some
would have it. There are the interests
of others at stake. They cannot be dis-
missed without consideration. The state-
ment made long ago; "no one liveth to
himself and no one dieth to himself,"
still holds true. We owe something to
those who surround us; to the home
folks; the neighbors; the community and
world at large. Instead of the world
owing us a living, we owe the world a
living. The one that waits for the world
to bring him a living will wait till dooms-
day. To minister to humanity is no men-
tal calling. The missionary laboring
with the savages of darkest Africa is a
hero if he did nothing but introduce civi-
lization. Then there is always the need
of persistent and patient effort to achieve
success, but of this we are more familiar.
Edison has lately said, "genius is partly
inspiration, but mostly perspiration"—a
very potent statement, equally true of
success.—For Green's Fruit Grower by
Wesley N. Peck.

"What ails you, boy? Why are you
crying so hard?"
"Because mother's gone to heaven,"
sobbed the child.

"O, don't fret so," replied the girl con-
solingly, "sure, maybe she hasn't."—
New York Times.

"But he's more than me equal," said
Mr. Nolan, dubiously, "and look at the
size of him."

"Sure and you don't want folks to be
saying Terry Nolan is a coward?" de-
manded a reproachful friend.

"Well, I dunno," and Mr. Nolan gazed
mournfully about him. "I'd rather that
than to have them saying day after to-
morrow, 'How natural Terry looks!'"—
"Youth's Companion."

Aunt Hannah's Replies.

Dear Aunt Hannah:—I am 17 years old.
I desire to go into the poultry business
in which I have had some experience but
I have not enough money to start with
I have been corresponding with a widow
lady 20 years old. She has plenty of
money of her own and says she will
furnish me with all I need in starting
in any kind of business that I may select.
I have had a very hard time at home
and desire to marry this girl. I ask your
advice.—Missouri Reader.

Reply:—Since you do not say anything
about your love for this girl I have
some doubts on that point. I would not
advise any man or woman to marry
unless he or she is particularly attracted
to the individual. Marriage without love
is, in nearly every instance, a failure. I
see no objection to your marrying this
girl providing there is a mutual attach-
ment between you.

Dear Aunt Hannah:—I am correspond-
ing with a young man who has never
visited me at home. In his letters he
has several times written that he would
like to see me. He has hinted about
coming but has never asked if he might.
Will it be proper for me to invite him to
visit me at my home or should I wait
until he comes without invitation? Is it
proper for a young lady to accept stamps
from a gentleman with whom she is cor-
responding? Is it right for a young girl
to correspond with a young man whom
she has never seen, but who has asked
her to correspond with him?—A Young
Girl.

Aunt Hannah's Reply:—I would not
advise any young girl to correspond with
a man whom she has not seen. I should
judge from your letter that you have
not been introduced to this young man,
but that he is a chance acquaintance.
No mother could advise you to cor-
respond with such a person or to invite
him to your home. Neither you nor I
know anything about this young man
nor what his character may be. He may
be of good moral character and he may
not. Girls are taking a great risk when
they correspond with men they have not
seen and to whom they have not been
introduced by responsible persons. I
advise you to make a plain statement of
this affair to your father and mother. It
would be perfectly proper for your father
to write the young man asking him
for his credentials, for recommendation
from his pastor or some well known per-
son. If your father considers him well
recommended he may invite him to your
house.

Practical Suggestions.

For Green's Fruit Grower by Mrs. Mary
C. Walker.

An apple kept in a cake box will keep
a rich cake moist and fresh for a long
time. Remove the apple when it is with-
ered.

If a mustard poultice or plaster be
mixed with vinegar instead of water all
risk of a chill is avoided. If the white of
an egg is used in mixing the mustard,
it will not blister the most delicate skin.

In cleansing water bottles and glass
jugs use tea leaves. They cleanse in-
stantly and perfectly, leaving the glass
brilliant.

Hot liquids may be poured with safe-
ty into glass vessels by holding them in
the hand instead of standing them upon
the table.

Kerosene oil will soften boots and
shoes that have long been hardened by
water and will render them as pliable as
new.

Brooms dipped a moment or two in
boiling suds once a week wear much
longer making them soft and pliable.

Value of Hot Water.—The uses of hot
water are many. For example, there is
nothing that so quickly cuts short con-
gestion of the lungs, a sore throat or
rheumatism as hot water when applied
promptly and thoroughly. Headache
almost always yields to the simultane-
ous application of hot water to the feet
and back of the neck. A towel folded
several times, dipped in water, quickly
wrung out and applied over the tooth-
ache or neuralgia will generally afford
prompt relief. A strip of flannel or
napkin, folded lengthwise and wrung
out in hot water and then applied around
the neck of a child that has the croup
will sometimes bring relief in ten min-
utes.—Washington Star.

Two Useful Helps.—Alcohol will quick-
ly remove an obstinate porous plaster
and the unsightly stains which it often
leaves and upon which soap and water
have no effect. A twin trifle that may
sometimes be of use is that a drop of
castor oil in the eye to remove a foreign
body is as useful and much more man-
ageable than the better known flaxseed.

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covered the way to develop the fruit organs in
a plant and make it grow two big berries
where one little one grew before. He grows
the biggest crops of the biggest berries ever
produced and the book tells all about how he
does it. It is a treatise on PLANT PHYS-
IOLOGY and explains correct principles in
fruit growing. It is worth its weight in gold
to any fruit grower. Will be sent free to all
readers of Green's Fruit Grower. Send your
address now. If you received a copy last year,
the new one will be sent you about January 10
without writing for it. Address,
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the trees you need, but money besides. We have matured an
attractive plan. Let us lay it before you. Write us about it.
Established 1888. Write for our new Catalogue. It's FREE.
GEORGE A. SWEET NURSERY CO., 11 Maple St., Danville, N. Y.

Over the Hills.

Over the hills and far away
A little boy steals from his morning play
And under the blossoming apple tree
He lies and he dreams of the things to be
Of battles fought and of victories won.
Of wrongs o'erthrown and of great deeds
done—
Of the valor that he shall prove some day,
Over the hills and far away—
Over the hills and far away!

Over the hills and far away.
An old man lingers at close of day;
Now that his journey is almost done,
His battles fought and his victories won—
The old-time honesty and truth,
The trustfulness and the friends of youth
Home and mother—where are they?
Over the hills and far away?
Over the hills and far away!
Eugene Field.

Clear as You Go.

Written for Green's Fruit Grower by
Virginia Gerard.

A woman whom I know, years ago
made this her watchword. She is one of
the neatest women I know and so quick
about her work, too. She is a very busy
woman yet seems to find time for every-
thing.

Coming into her home unexpectedly at
any time, I have never found it untidy.
In cooking she washes her dishes as she
uses them. No dirty dishes standing
around in her kitchen.

Her clothes are mended and buttons
sewed on as soon as she notices any-
thing wrong. These stitches taken in
time save her many others. If her at-
tention is called to a torn coat or any-
thing of that sort by her boys, she is
never too busy to mend it then and there.
She has done her work as she goes, so
there is not a lot of work staring her in
the face and she finds time for it then.

Yet this woman does not hustle and
hurry, and get worried and nervous over
her work. In fact she does her work as
if she enjoyed doing it more than any-
thing else. She seems to get real pleas-
ure out of it and those about her seem
to enjoy it as much as she does and fall
into her way of doing things.

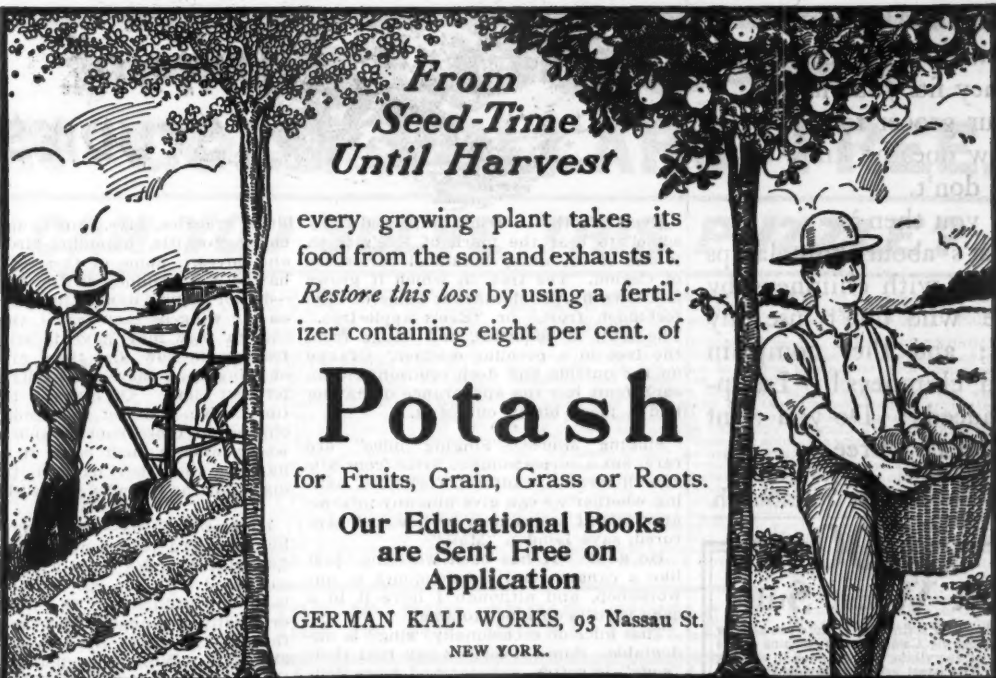
When her boys and girls come in from
school, instead of throwing hats, wraps
and mittens about they place them at
once where they belong. This saves time
not only in hanging them up again but
also in finding them.

It happened that one day I came into
this woman's home while she was getting
ready to clear the table. Instead of
carrying her things to the kitchen table
and sorting and scraping dishes there
as many housewives do, everything was
cleared at once from the dining-table.
Food that was left was at once placed
in pantry and refrigerator. Plates were
scraped and placed in neat piles, then
carried into the kitchen. Here no array
of dirty dishes used in cooking greeted
her but all was neat and orderly. A pot
and pan from which food had been sent
to table had been filled with water and
placed aside. It was no task at all to
wash them now.

Before I went home I asked this wo-
man the secret of her orderliness and
neatness. "Clear as you go along" was
her answer. It was a lesson I shall not
soon forget, one which has saved me a
great deal of time and worry and work.

To Editor Green's Fruit Grower, Dear
Sir:—Since you have lately asked your
readers for intelligent criticism on your
paper, which in itself is commendable, I
have determined to write you a few
things which may be of interest to you.
I regard Green's Fruit Grower the best
secular paper that comes into the home.
This may be because in the past it has
had an influence over my life. A few
years ago I was away at school where
a large number of the boys were older
than I and had made a choice of their
life work. I felt very much inferior to
them because I had not yet made such a
choice. I was thinking it over very
earnestly one time when I came home
on my vacation. During this vacation
some way or other a copy of Green's
Fruit Grower came into my hands, the
old style of wide sheets. I read this pa-
per very carefully and the result was
that the question was settled. I had al-
ways lived on a farm, yet hated it; but
a few years caring for fruit trees and
plants has completely won me over.
Farming now is a passion with me where
before it nearly killed me to be called
"a farmer." So you can understand why
I care for your paper. Long life to it!
People are apt to pass judgment on pa-
pers by the advertisements that appear
in them. To much care cannot be be-
stowed along this line. Don't hardly like
outside cover advertisements but sup-
pose it brings big money. The idea of

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every growing plant takes its food from the soil and exhausts it.
Restore this loss by using a fertil-izer containing eight per cent. of

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Cut this Ad Out

MARVIN SMITH CO. CHICAGO, ILL.

conducting different departments is fine giving fruit the most space and prefer-ence, and then following with those of lesser importance. Like the expression, "Home Companion" and part of your paper which emphasizes it. Many short articles are always preferable to fewer long ones. One good story bringing out a plain truth in each number will go well. The gradual addition of those em-bellishments which characterize a first class magazine will be appreciated by all. One of these is pictures. Give us more illustrations. Hope to be able to send you some this year myself. Like the idea of symposiums, as it brings out the ideas of common every-day people all over the country, who I note seem to be always your correspondents. It is democratic and that is the kind of a paper we want.—Wesley N. Peck.

I believe, as a matter of justice to the farmer, he ought to have roads that will enable him to keep his crop and take it to the market at the best time, and not place him in a position where they can run down the price of what he has to sell during the months he must sell, and then, when he has disposed of it, run the price up and give the speculator what the farmer ought to have.

The farmer has a right to insist upon roads that will enable him to go to town, to church, to the schoolhouse and to the homes of his neighbors, as occasion may require; and, with the extension of rural mail delivery, he has additional need for good roads in order that he may be kept in communication with the outside world.

Draco was propounding the cause of law.

"When you have laws," he explained, "you have policemen, and when you have cops, you can keep the cook."

Seeing the true inwardness for the first time, they eagerly begged him to pass some more.

Solon was making the law for the Athenians.

"But," they objected as they viewed the result, "you have omitted to give us any Sioux Falls."

Sadly perceiving his failure, he hastily left for Egypt.—New York "Sun."

Max Meyer has a bullet in his heart, but is in perfect health. The Middlesex hospital experts in London the other day examined him with the x-rays and found the bullet imbedded in the apex of the heart, evidently covered with muscle tissue.

Care of Carpets.

First, I find that heavy carpets do not require taking up every year. Once in two or even three years is sufficient, unless they are in constant use.

Every autumn, however, I take out the tacks, fold back the carpet half a yard or so, have the floor washed with a strong suds in which borax has been dissolved, which means a tablespoonful to a pail of water.

Then I dust black pepper along the edges and retack the carpet.

In this way moths are kept away, and, as their favorite place is in corners and folds, this laying back enables one to search out and destroy them.

With Ingrain and other carpets, after shaking them I have found it a good plan to brighten them in color by sprinkling a pound or two of salt over the surface and sweeping carefully.

Occasionally I wipe off a carpet with borax water, using thick flannel, and taking care not to wet, but only to dampen, the carpet.

The borax water is also the best thing for matting. I wipe the matting with the borax water, using a cloth wet enough to dampen, but not wet.—Pitts-burg Press.

Hot Potato Salad.—Put into a frying-pan one-fourth of a pound of bacon cut into dice; when light brown take out and saute in the fat a small onion cut fine. Add one-half as much vinegar as fat, a few grains of salt and cayenne, and one-half as much hot stock as vinegar. Have ready the potatoes boiled in skins. Remove the skins and slice hot into the frying-pan enough to take up the liquid. Add the diced bacon, toss together and serve.

Not long since a Paris jeweler made a most elaborate thimble to the order of a certain well-known American millionaire. It is somewhat larger than the ordinary size of thimbles, and the agreed price was £5,000. The gold setting was scarcely visible, so completely was it set with diamonds, rubies and pearls in artistic designs, the rubies showing the initials of the intended recipient.

No man is born into the world, whose work is not born with him,—there is always work, And tools to work withal, for those who will,—And blest are the horny hands of toil! The busy world shoves angrily aside The man who stands with arms akimbo set. Until occasion tells him what to do,—And he who waits to have his task marked out Shall die and leave his errand unfulfilled.—Lowell.

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have the quality that give both quantity and quality to the crop. They never disappoint. Farmers for nearly 50 years. Sold under three guarantees. Write for free catalogue.

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Extra Early Surprise potato seed is the seed you need for both bigger and better potato yield. In every test it has always excelled in quality and quantity. Good size; oblong in shape; smooth and free from scab. Extra early means extra good price for the planter. Our seed this year is excellent. 25¢ per bu. (40 lbs.) \$1.75; sack (100 lbs.) \$3.50. Our 40 pp. catalog of vegetable, flower farm seeds, fruits, plants and corn manual free. The Page Seed Co., Box 11, Greene, N. Y.

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D. M. FERRY & CO., Detroit, Mich.

Please mention Green's Fruit Grower.

Good Cheer Department.

A Song of Cheer.

Written for Green's Fruit Grower by
Marvin L. Piper.

When the day is done, oh toller,
And rest has come once more,
Do not think of thy troubles
But count the blessings o'er;
And they will quickly banish
All gloomy thoughts and fears,
And fill the heart with gladness,
And restful peace that cheers.

Bright hope comes in the morning,
And in the quiet night:
Strength is born for the battle,
And wisdom for the fight.
Then let the cares and failures
Rest in the grave of the past,
Strive ever onward, upward,
Victory will come at last.

The Cheering Word.

Written for Green's Fruit Grower by
Mrs. L. Jennings.

There is a decided difference between the two words, affliction and trouble. To illustrate we will take a page from the lives of two persons. A refined Christian woman has lost by death a loved husband with whom she has spent several happy years. She is prostrated with grief, there is no longer joy in life. The sun does not shine brightly or flowers bloom sweetly as before. There is laid a pall over everything. Long days are filled with gloom; nights with alternate troubled sleep and wakeful yearning for the loved presence, the fervent hand-clasp, to feel the protecting arm. Oh! the yearning hunger that will not be satisfied. In time there comes a rift in the cloud. From the deep sense of her own sorrow the heart is more easily touched by the grief of others; she reaches out a helping hand or gives a cheering word. The veil is gradually lifted. In so far as she forgets self to minister unto others she eases her own heartache. The freed spirit of the loved hovers near to comfort and console. Earthly repinings give place to higher, holier thoughts; unconsciously there comes sweet communion of soul, a holy communion, a perfect resignation, and she can say from the heart "He doeth all things well." This is affliction which in time "worketh out an eternal weight of glory."

We turn another page. Here we find a woman equally pure in heart, equally cultured, joined in wedlock to the man of her choice. The two are devoted to each other. Years pass and a friend of her girlhood, one in whom she confided and trusted, enters the home. All is well for a time then a cloud appears and before she is aware the trouble falls. The two she trusted so implicitly have gone to distant lands, she is left alone in anguish of heart. There is nothing to mitigate her grief; no loved one to remember, no pleasant reminiscence of the past to soothe. She must put the thoughts of him out of her heart forever. She dare not even pray for him. There is left a stain on her name. This is not affliction but a living trouble more bitter than death. There at last comes a time when a calm steals into her heart. As the sun warms and breaks up the heaviest clouds of the valley so the light of heaven warms and permeates the soul. It is not given us always to mourn, some subtle influence will in time cheer. The woman in question, being called to New York to arrange some business, her lawyer engages a woman to accompany her. A bright, lively person, one could not long be sad in her company, whose husband was daily laboring for support and education of his children. On learning that a daughter of her traveling companion was about to graduate from high school having abundant means, the lone woman asked the privilege of furnishing the graduating apparel. Thus started she became interested in other school girls and their work and is slowly regaining some degree of cheerfulness. But that haunting trouble cannot be overcome; she feels that she is degraded and that people look down upon her as in some way to blame. The living trouble holds her down all through life.

It fairly makes one's blood boil to read of policemen going forth to capture children who should be safe in the home circle doing useful household tasks, learning their lessons or listening to

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VICK'S MAGAZINE
and GREEN'S FRUIT GROWER**

ALL FOR \$1.00

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-\$1,000- IN GOLD DOLLARS FREE. CAN YOU SOLVE THIS PUZZLE?

Each one of the three lines of figures IN THE CENTRE OF THIS ADVERTISEMENT spells the name of a great city in the United States. This is a brand new puzzle and can be solved with a little study as follows: There are twenty-six letters in the alphabet, and we have used figures in spelling the cities instead of letters. Letter A is number 1, B number 2, C number 3, etc. throughout the entire alphabet. IF YOU CAN SPELL OUT THESE THREE CITIES YOU MAY SHARE IN THE DISTRIBUTION OF \$1,000. WHICH WE ARE GIVING AWAY! Not getting subscriptions for us. This you can do by giving up a little of your spare time. This and other most liberal offers are made to introduce one of the very best New York magazines into every home in the United States and Canada. WE DO NOT WANT ONE CENT OF YOUR MONEY. When you have made out the names of these three cities, write them plainly on a postal card and send it to us, and you will hear from us promptly BY RETURN MAIL. It may take an entire evening to solve the three names, but STICK TO IT AND GET YOUR SHARE OF THE \$1,000. A copy of our fascinating MAGAZINE WILL BE SENT FREE to every one answering this advertisement. Do not delay. Send in your answer immediately. WE INTEND TO GIVE AWAY VAST SUMS OF MONEY in the future, just as we have done in the past, to advertise our CHARMING MAGAZINE. We and it is the very best thing we can get to give away. LARGE SUMS OF GOLD FREE. Here are the names and addresses of a few people we have recently awarded FREE GOLD PRIZES: Mrs. J. M. Leach, Twenty-third Street, Pittsburgh, Pa., \$100.00; Mr. O. F. Ackerman, Hill, N. H., \$100.00; Mrs. Fred Peace, 144 Adams Street, Rochester, N. Y., \$100.00; Mr. George Corbett, Five Islands, Nova Scotia, Canada, \$50.00; E. C. Hare, 43 Wisconsin Avenue, Columbus, O., \$1,750.00 (this includes the \$500.00 Cabinet Grand Upright Piano); V. Kettie, 208 Carson Street, Pittsburgh, Pa., \$100.00; Miss Martha Gregory, 1 Park Street, Norwalk, Conn., \$100.00; Mrs. John Just, Box 7, Randolph, N. H., \$100.00. The above solution can be worked out by an alert and clever person, and the reward is so handsome that it will amply repay you for the time and trouble. THE ABOVE SOLUTION CAN BE WORKED OUT BY AN ALERT AND CLEVER PERSON, AND THE REWARD IS SO HANDSOME THAT IT WILL AMPLY REPAY YOU FOR THE TIME AND TRUBLE. IF YOU CAN SPELL OUT THESE THREE CITIES, BRAINS AND ENERGY NOWADAYS ARE WINNING MANY GOLDEN PRIZES. Study it very carefully and let us see if you are clever and smart enough to spell out the Three Cities. WE HAVE THE \$1,000.00 IN GOLD. Have you the brains and energy? If you can make out the names of the three cities, send them to us without one cent of money. Remember that this is our \$1,000.00 in Gold Free Distribution, and we don't want you to send any money. When we say FREE, we mean PERFECTLY FREE. We would rather take this way of advertising our excellent magazine than spending many thousands of dollars in other foolish ways. We freely and cheerfully give the money away. YOU MAY WIN. We do not care who gets the money. TO PLEASE OUR READERS IS OUR DELIGHT. The question is, can you solve the above unique proposition? If you can do so, write the names of the three cities and your full address plainly in a letter and mail it to us, and you will hear from us promptly by return mail. Money is a nice thing to have, because there are so many useful uses we can put it to. By a little extra effort someone will get the money we give away. Some lazy and foolish people often neglect grand, golden, free offers we make and then wonder and complain about their bad luck. There are always plenty

of good opportunities for clever, brainy people who are always alert and ready to grasp a real good thing. We have built up our enormous business by being alert and liberal in our GRAND GOLD FREE DISTRIBUTIONS.

We are continually offering our readers RARE AND UNUSUAL prizes. This special contest we consider one of the greatest offers ever made. Do not delay in giving this matter your immediate attention, and if you can spell out the three cities send your answer at once. \$1,000.00 REWARD will be paid to any one who can prove that in the many Free Cash Contests we have conducted in the past years we did not do exactly as we agreed. We have a big capital, and anyone can easily ascertain about our financial condition. To pay out these big gold cash prizes is a pleasure to us. We intend to have the largest circulation of our high-class one-dollar magazine in the world. In this progressive new publication and that they must be liberal in giving away prizes of great sums of money. It is the only successful way to get your magazine talked about. For instance, if you should solve the peculiar way we have of spelling the names of the three cities, and we should hand you a sum of money as a free prize, you would never stop talking about our magazine, now, would you? We POSITIVELY CLAIM that these three lines of figures, by our plan, do actually spell the names of three cities, and that a clever, brainy person, who can read and

will patiently endeavor to solve how it is done, will be amply rewarded by sharing in our \$1,000.00 in Gold Free Offer. Of course, if you are easily discouraged and are not patient and are not willing to spend any time in trying to work out the solution, you certainly cannot expect to win. This advertisement was not written for dreamers or idlers, who are not willing to give a liberal use of their time. We expect the reader to do some work and give it the time and attention it deserves. IT'S YOUR BRAINS. If you are successful in solving it, well and good. Write the names of the three cities and send them to us, and we will be just as much pleased as you are. We really desire some one to be successful, and as it does not cost you one cent to solve and answer this splendid Free Money Offer, it will be very foolish for you to pass it by. In all fairness give it a part of your leisure time. SUCCESS IS FOR THE ENERGETIC AND THOUGHTFUL PEOPLE, and the chances of a large sum of money are yours. YOUR LACK OF INTEREST AND LAZINESS, so dear reader, do not pass this

THIS IS THE GREAT PUZZLE.

14	5	23	25	15	18	11			
23	1	19	8	9	14	7	20	15	14
3	0	9	3	1	7	15			

CAN YOU SOLVE IT FOR GOLD?

advertisement without trying hard to solve a SOLUTION. A SOLUTION. We suggest that you carefully read this offer several times before giving up the idea of solving the puzzle. The harder it seems the more patience and determination you should have. Courage and determination win many of the PRIZES OF LIFE. Your share in OUR FREE MONEY DISTRIBUTION depends entirely upon your own energy and brains. Don't delay a moment in TRYING TO SOLVE THIS FEEBLYING PUZZLE. Many of the people we have recently sent large sums of money to in our Free Money Distribution write us kind and grateful letters, profusely thanking us for our prompt and honest dealings, and saying that if we had not so strongly urged them to try to win they would not have been successful and would not have been the happy recipients of a large sum of money for only a few hours' effort. It always pays to give attention to our grand and liberal offers. OUR BIG CASH PRIZES have gladdened the hearts of many persons who needed the money. If you need money you will give attention to this special offer this very minute. If you solve it, write us immediately. DON'T DELAY.

ADDRESS:
THE ROBINSON PUBLISHING COMPANY,
24 NORTH WILLIAM STREET, NEW YORK CITY.

pleasant stories at the parent's knee. The filling up of prisons and houses of detention, the fearfully increasing evil of youthful depravity is largely due to the failure of parents to command obedience, provide employment, encourage study or simply pleasant recreation at home, to make home the center for good discipline, virtue, truth and love. The father can have no higher aim nor the mother more noble purpose.—Mrs. L. Jennings.

How Plants Grow.—Mr. Boyd then gave a technical description of the growth of vegetation and detailed the relation between water and the soil. Roots are mouths and leaves the lungs of plants, and all food-except carbonic acid gas entered through the roots and must be solvent. So that water is essential to the growth of the plant. He spoke of the element constituting plants, oxygen, hydrogen, nitrogen and carbon, and told how the plant secures each. The organic elements should not be permitted to get out of the soil. Leguminous plants increased the amount of organic matter in the soil, and so there should be rotation of crops so that the soil may be replenished.

So many rabbits and quail are killed by house cats running loose in the woods that the New Jersey hunters want to have a law passed allowing cats found in the woods to be shot. The present law provides that any person allowing a dog to run wild shall pay a fine of \$20. Cats are said to be more destructive of game than dogs, foxes, minks or hawks.

Only those temptations which we encounter in the path of duty, in the path of consecration, only those our Lord promised us we should conquer. If you are in temptation for temptation's sake, for no other purpose beyond it, you are lost.—Phillips Brooks.

A man in Palmer, Mass., died recently of chronic poisoning from arsenic in the colors upon the wall paper of his sitting-room.

Supposed to be Funny.

"Did you eat any horse while you were in Paris?" asked the New York woman. "Oh, I suppose so," replied the lady from Cincinnati; "but I did not know it. You know they always serve it under a nom-de-plume!"—Yonkers Statesman.

Lena—What made Fred act so funny when I accepted him? Emma—Oh, he's just in love with you, goosie. He will soon get over that.—Brooklyn Life.

Mother—Now, Bobby, you must not get into any fights with the neighbors' children. Bobby—But, mamma, I've got to get acquainted with them some way.—Puck.

"Josiah," said Mrs. Chugwater, "have you ever seen a bureau of information?" "Yes," "What does it look like?" "You have seen a table of contents, haven't you?" replied Mr. Chugwater, somewhat irritably. "Well, it looks like that, only it's larger."—Chicago Tribune.

"That little mare I got from you was no good at all." "And yet you say I am no judge of a horse."—Life.

"What am I ever going to do with such a bad, bad boy?" sighed the fond mother. "Oh, you leave me alone," replied the young hopeful. "I'm not half as bad as I can be."—Brooklyn Life.

"It was only five years ago that I started in with our firm at \$5 a week," said Bragg, "and now I earn \$50 a week without any trouble." "That's so; it's easy to earn that," remarked Newitt, "but how much do you get?"—Philadelphia Press.

Waterproof Dressing.—A writer in "Stockman and Farmer" gives a good waterproof dressing cloth: Stir one ounce of sugar of lead and one ounce of powdered alum into one gallon of rain-water, and when clear pour off the liquid. Soak the cloth in this twenty-four hours, and when dry it will be found quite waterproof.



One Horse.
For Vineyards and Small Farms.
Cutaway-Extension Reversible Harrow
A bonanza for fruit growers and orchardists. Also two-horse size for larger orchards. E. C. Mendenhall, Gen'l Agt., Box 303, Kimmund, ILLS.

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A GOOD POSITION and a large salary always await an expert book-keeper. We teach you book-keeping thoroughly by mail, and make absolutely no charge for tuition until we place you in a paying position. If you wish to better yourself, write for our guarantee offer and our FREE book on "Business." COMMERCIAL CORRESPONDENCE SCHOOLS 115 E. School St., Chicago, Ill.

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Cured Her Husband of Drinking.

Write Her Today and She Will Gladly Tell You How She Did It.

My husband was a hard drinker for over 20 years and had tried in every way to stop but could not do so. I at last cured him by a simple home remedy which any one can give secretly. I want every one who has drunkness in their homes to know of this and if they are sincere in their desire to cure this disease and will write to me, I will tell them just what the remedy is. My address is Mrs. Margaret Anderson, Box 421, Hillburn, N. Y. I am sincere in this offer. I have sent this valuable information to thousands and will gladly send it to you if you will but write me to-day. As I have nothing whatever to sell, I want no money.



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Dr. E. E. Grant, 204 S. 10th St., New York City, writes: "I reduced my weight 40 lbs. in 3 months. I have regained my own shape. I am now a healthy, happy man. I am now a healthy, happy man. I am now a healthy, happy man." My REMEDY HAS CURED WHEN ALL OTHERS FAILED.

DR. F. E. GRANT, Dept. 23, Kansas City, Mo.

Setting an Orchard.

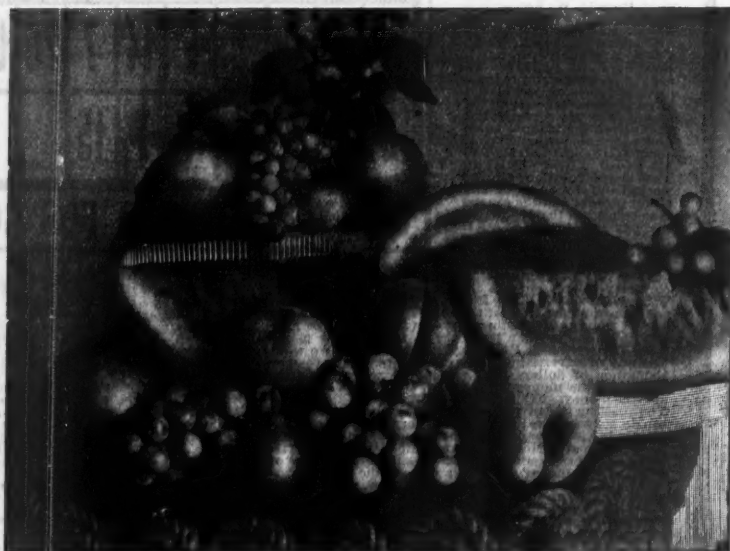
Written for Green's Fruit Grower by S. A. Haseltine.

The best season for setting an orchard is just as soon as winter breaks, and the ground can be handled. Be careful not to freeze the roots. Ground can be handled wetter in winter and in very early spring than later in the season, for it will not pack or bake then as it does later, but it is preferable especially in clay soil to have the ground in proper condition, not too wet, as there is danger of baking the ground around the roots of the trees. We have set trees in the fall, winter and as late in the spring as May, when large apple trees were in bloom, and the early varieties of fruit were leaving out. It is best to set the trees as soon as possible after being taken from the nursery row. If any of the roots are badly injured or bruised it is best to cut them off and let the tree send out healthy ones. The roots should be carefully examined and if they show lumps as the result of Aphid or other diseases, do not set the tree. If you want a permanent orchard you should set healthy trees. I cannot too strongly emphasize the idea that deep planting makes "root rot." Nature starts the roots on trees from the surface of the ground, and we should plant them the same way.

Place some of the best surface earth carefully around the roots, and after filling the hole pack the earth tight and

head care should be taken to have the framework branches disposed at different heights along the body of the tree—say from three to six inches apart, and distributed as evenly as possible around the body as a central axis; that is, when viewed from above the picture presented would be that of a wheel, the hub being the central axis of the tree and the framework branches representing the spokes.

For an apple tree three branches are considered the ideal number. More may be left upon some varieties, particularly those which are strong growers and upon trees which have a well-developed root system at planting time. If, however, the roots have been badly mutilated in removing the tree from the nursery it will be safer to reduce the number to three rather than to maintain a larger number. These three main framework branches upon the ordinary first class nursery trees should not be more than ten or twelve inches in length. At the close of the first season's growth after planting each one of these three framework branches should be considered as though it were a separate nursery tree, and, if possible, three subdivisions of this should be maintained for the wood supply of the second year, the three branches retained being cut back to about the same length as those originally held by the tree as planted in the first place. This operation should be repeated each succeeding year. By so doing a symmetrical development can be maintained,



ROCHESTER FRUITS.—A subscriber to Green's Fruit Grower sends us the above beautiful photograph. All the fruits shown were grown upon trees and vines that came from Rochester, N. Y., being Duchess and Wilder pear, Elberta peach, Worden, Rogers Red, Concord, and Delaware grapes, Damsen plum, Peerless water melon, and Nutmeg musk melon. Rochester nurseries have a world-wide reputation. There is something about the soil and the humidity of the atmosphere at Rochester that induces a healthy and vigorous growth of trees, etc. A subscriber inquired recently whether Rochester trees would thrive in Missouri or even further south. Surely they will. Trees grown in Missouri or in Georgia will also thrive at Rochester.

closely around the tree to prevent the winds from shaking it until the roots get started.

If the roots are trimmed or cut back, the top should be proportionately trimmed, otherwise the right proportion established by nature between the top and the root, being disturbed, the tree is apt to become stunted or unhealthy, and make little growth, as the root must have sufficient time to get started to even up the right proportion with the top. I have seen trees that were six years old transplanted from the nursery, into the orchard, and it took them several years to get balanced, so as to make a good growth.

Pruning an Apple Tree.

In pruning a fruit-bearing plant like the apple, attention must be given not only to the height and formation of the head, but to the removal of wood as well, says American Cultivator. The apple bears its fruit on spurs, which are themselves developed from wood one year or more of age. For that reason, therefore, the removal of wood which carries fruit spurs reduces the crop the tree is capable of bearing. This, then, is a practicable way of thinning the fruit. Besides accomplishing this result, pruning can be used to lessen the annual growth and force the energy of the plant which would naturally be used in making wood into the fruit, thus increasing its size or enabling the tree to carry a larger quantity than would be possible were a normal wood growth permitted. The approved methods as follows are described by L. C. Corbett in a recent bulletin of the Department of Agriculture.

Modern orchardists have come to look upon the low-headed tree as more desirable than those headed high. A head which is 2-1/2 to 3 feet from the ground is at present considered more desirable than one which is 6 feet or more from the ground. The latter height was formerly frequently used. In forming the

and by cutting to an outside or an inside bud the habit of the tree can be modified so as to make it upright or spreading in character. Some trees are normally upright in their habit of growth, while others are spreading. This must be borne in mind and the character of the variety under treatment must be taken into consideration in cutting the branches, so that they will be upright or spreading according to the desire of the planter.

This frequent cutting back of the branches of the tree while it is young prevents the long, bare branches, which are so characteristic of old orchard trees. It also prevents the tree from growing too tall—a condition which makes it difficult to gather the fruit or to spray the tree. With the low-headed trees less propping is necessary than with trees having long framework branches. The load of fruit is carried nearer the trunk, and the main structural branches being larger in proportion to their length are therefore better able to carry any load of fruit which the tree may develop.

Gladness is not thankfulness. One may be selfish in his gladness. Gratitude gives a touch of dignity to gladness, which might otherwise be a passing mood, involuntary and without meaning.

It is often said that the low wages paid for the labor of women is the cause of immorality among them. And yet a fact of experience is that the average morality of poor people compares favorably with that of the rich.

Radium has been known but a few months, and yet somebody is responsible for the statement that it will give out heat forever without loss of power. How can anybody know what radium will do ten years hence, when we do not know what it was doing ten years ago?—Christian Register.

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"Apples or Pears?"

Written for Green's Fruit Grower by G. B. Griffith.

An excellent lesson on true politeness is taught in the following incident, given the writer by one who vouches for its truth.

The little story shows that it costs something, now and then, to be courteous. Yet a gentleman will not hesitate to pay the price.

Several years ago three young men, just graduated from college, went on a hunting tour through Western Virginia, seeking sport and health. One day they stopped at a farmer's house to take dinner. They were cordially welcomed by the good man and his wife, whose table was bountifully spread.

At the close of the meal a basket of apples and pears, both of which were luscious to the sight and taste, was placed on the table.

"Mr. Ames, will you take apples or pears?" asked the farmer's wife, addressing one of the young men.

The young man was perplexed. He wanted pears. "But," he said to himself, "If I say pears, I may mortify my hostess by seeming to correct her pronunciation. Should I say p'sars, the boys would laugh."

"An apple, if you please," he answered, denying himself that he might be courteous.

A similar question was put to Mr. Childs, who also concluded to deny his appetite for the sake of courtesy, and take an apple. Mr. Smith, the third student, had made up his mind that he would take a pear. When the lady asked, "Mr. Smith, will you take apples or p'sars?" he answered as courteously as if addressing a duchess:

"Thank you, madam, I'll take p'sars." Two beautiful pears were passed to him, somewhat to the chagrin of his companions, who ate their unrelished apples in silence. As they were leaving the house, the kind-hearted matron gave to Ames and Childs several apples, but to Smith three or four pears. The young men hastened to get out of sight, that they might divide the spoils and enjoy a laugh over the self-denial their courtesy caused them.

"Boys," said Ames, "I wouldn't have mortified the old lady for a basketful of pears."

"Nor I have said 'pears,' remarked Smith. "There's a time and place for everything; but the dinner table is not the place to correct your hostess' pronunciation."

Manners on the Road.

When driving on the road without a load I give the better track to a loaded team, to a team driven by a woman or a boy, to a frail-looking vehicle, loaded or unloaded. When driving slowly and one comes up at a smart gait behind, I pull aside and let him pass, says New York "Tribune." But for these facts I give myself no credit. They seem to be nothing more than acts of courtesy which each man owes to his neighbor.

But does the other fellow owe nothing? Have we not a right to expect a word, a look, a nod which shall indicate that he appreciates what he has received? Once I was returning from town empty and met some heavily loaded emigrant wagons. As I pulled to one side, at some little inconvenience to leave them the smooth track, one of the drivers exclaimed in a hearty tone. "You are the first gentleman we have met to-day." Now that little bit of exaggeration, which cost this stranger nothing, gave me, at least, a warmer feeling for my brother men than I had had before. But how often have I found it otherwise.

Once I met some women driving in a sleigh where only a single track was broken through the deep snow. They started to turn out, but I motioned to them to keep in the track, and turned to the left myself, knowing that my strong sled would be safe among the loose stones which line the road there. These women only giggled. And often on these mountain roads, where it is not always easy for one team to pass another, when I have pulled to one side, that a smart trap wagon might pass my slow moving lumber wagon, the occupants have not even looked my way. Let us all have manners on the road.

The man who goes after big game and kills more than he is reasonably entitled to is not complacently regarded nowadays by his mates. The boy who kills song birds is earnestly discouraged; and even the bagging of enormous

quantities of tame game birds in a preserve is not considered so very much more sporty than shooting at pigeons as they fly from traps. The shooting of guilts, too, of which we hear so much every fall, is justly regarded as reprehensible. But still, shooting holds out well as a sport, and there is no prospect of its going out of fashion. The way to get partridges, grouse, woodcock and quail is to go out after them with gun and dog. They are worth getting; man is fairly entitled to eat them if he can, and if he gets an appetite, betters his health and cheers his spirit while he is getting them, it is no sin.

As for the big game, it is certainly fair play to hunt big game under the rules. It means getting away from all enervating comforts, living out-of-doors, getting up before dawn, waiting, watching, enduring, working mighty hard for what you get, and coming home with redder blood in you, and a spirit more equal to the labors and conflicts of life.

Let the boy have the gun, and if possible let him learn to handle it. The squirrel who is eating the seeds out of the pears in the garden is fair game for him to start with. If he learns to shoot at the right thing in the right season, never mind if he also learns to hit what he shoots at. The boy who has learned to handle a gun is the kind of a boy who knows when a gun is loaded and does not shoot his little brother by mistake, nor get the lockjaw from toy pistols on the Fourth of July.—Ward Sandford in "Illustrated Sporting News."

Fems of Thought.

The master of the house is the guests' servant. He who has no rest at home is in the world's hell. Two watermelons cannot be held under one arm. The mouth is not sweetened by saying honey, honey. To-day's egg is better than tomorrow's hen. To the well man every day is a feast day.—Turkish Proverbs.

Our character is but the stamp on our souls of the free choice of good and evil we have made through life.—Geikie.

Nobody proves God's being. But, all of a sudden, one finds God is here. One speaks, and God answers. Thereafter all is sure.—Edward Everett Hale.

"Jesus lives as an immortal lives. He is always looking out into infinite life. Food, raiment, shelter, always take a secondary place. Love, society, faith, prayer, hope, heaven, these are the primary matters. These are what one talks about, thinks about, lives for."

"We gain life as we use what life we have and we gain it as we are in sympathy, companionship or accord with those who truly live."

As one familiar with the grand symphonies of Beethoven, while passing along the street in summer gets from out of the open window a snatch of a song or a piece that is being played, catching a strain here and another there, and says to himself, "Ah, that's Beethoven. I recognize that; it is from such and such a movement of the Pastoral," or whatever it may be,—so men in life catch strains of God in the mother's disinterested and self-denying love, in the lover's glow, in the little child's innocent affections. Where did this thing come from? No plant ever brought out such fruit as this.—Beecher.

It is this desire of the happiness of those whom we love which gives to the emotion of love itself its principal delight, by affording to us constant means of its gratification.

Some men are not fit even for themselves to associate with.

It would be a terrible temptation to take out insurance on one's mother-in-law.

It takes a widow to act as if she were puzzled to death over what being married is like.

You can always tell by how ripe a woman's lips are how much a man would like to see if any of it will come off.

After a woman makes up her mind that a thing isn't so terrible as she thought it was before she knew all about it, generally she begins to look for something else that is.—New York Press.

Blanquette Sauce for Warming Up Cold Veal or Chicken as a White Fricassee.—Melt in a saucepan two ounces of butter; sift in two tablespoonfuls of flour, stirring until well mixed, but not browned. Pour in gradually, hot water, until it is of the desired thickness; add a bunch of sweet herbs, half a cup of cream, the well beaten yolk of an egg, and a few very small cooked white onions. Simmer together for ten minutes and serve.

New But Old.—The egg of the aeplornis, just purchased for the national museum, is probably the largest egg in existence. It is 12 inches long and 10 inches in diameter, and its shell is nearly a quarter of an inch thick and as hard as a rock. It is capable of holding the contents of 6 ostrich eggs or 148 hen's eggs.



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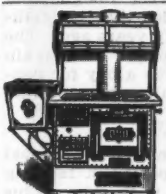
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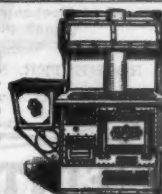
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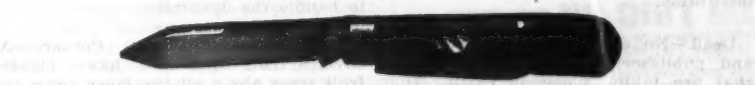
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ROCHESTER, N. Y., MARCH, 1904.



We may muzzle a dog and yet not cure him of eating meat. We may tie a man to a tree with stout ropes and yet not destroy his appetite for drink.

Hitch your wagon to a star then trudge along on foot. Walking is a safe exercise and there is no danger of being wrecked.

Is there a time for boasting? If there is it is when you are off in the woods by yourself where nobody will hear you.

The work of this life writes its record in our character.

Dignity, if it is unconscious, may be desirable, but if it is assumed it is ridiculous.

Of hell, Dante wrote "Let all who enter here leave hope behind." If we have no hope we might as well be dead. We can accomplish nothing without hope.

What shall the sour faced man do with himself? What's the matter with him anyhow? He is probably a selfish man. All of his thoughts and plans are wrapped in is stingy self. If he would get out of himself, get away from himself and interest himself in others his sour face would disappear.

What are you able to earn? Many people who are working for others seldom ask this question. With them what wages can I get is question enough.

All fruit is good but some varieties are better than others.

Seed time and harvest always come. See to it that your fruits do not all run to seed.

In publishing a paper like Green's Fruit Grower, that which is not inserted is as important as that which is inserted.

Since the world is made up of busy and lazy people allow me to ask which class you belong to.

When you are offered something for nothing hesitate before accepting, particularly if it is something given over the bar of a saloon. The treating habit is the worst thing in connection with intemperance. It is purely an American institution.

Dead.—No one more than the editor and publisher appreciates the changes that are taking place on earth. How often the editor receives notice that a subscriber is dead. If he has 100,000 subscribers, and Green's Fruit Grower has many more than that, it is possible that 500 of this number may die during the year. Truly life is uncertain.

Blow Your Horn.—An honest man will sell nothing that will do another injury; nothing that he would be ashamed of when it is inspected or tested. When such a man has something good to sell why should he not blow his horn as loudly as possible; the louder he blows it the better it is for mankind.

Half Knowledge.—Green's Fruit Grower dislikes long articles. We have no time or space for telling all we know on any one subject, and assume that our readers have no time to follow us in telling all we know should we feel so inclined. Our idea is to offer suggestions, to create interest in various subjects that should occupy the minds of people who desire to live right. We have a nature study department which treats of the habits of the various animals. Should we attempt

in that department to tell you all about the horse or cow you would not have patience to read it. We simply give you hints and suggestions.

Apples.—Many city men buy apples for the reason that this fruit reminds them of their boyhood days upon the old farm where they were reared as children. Our large cities are filled with men who were born and brought up on farms. Nothing upon those farms cling to their memories as do the apples and the apple orchards. How many times the city man, wearied with office cares, would wish to be carried back and be made a boy again, to climb in those old apple trees and fill his pockets with the Golden Sweeties, the Sweet Boughs and the Early Harvest apples that he gathered thirty, forty or fifty years ago. The city man would like to get back again the enthusiasm he had as a boy for fishing and hunting, for gathering nuts and wild berries.

Poetry on the Farm.—The practical farmer sees but little poetry in farming for the reason that he is so close to his work and so occupied with its details. His work is to pitch the manure, the straw, the hay, the corn fodder; to plow, harrow, dig, delve, lift, push and perspire. He sees no poetry in this. But after he has left the farm and dwelt in the city for a few years, then he can look back and see the poetry of farming that he once overlooked. From his city office he wonders why he did not hear the birds singing as he plowed in the field, or as he rode the mower that cut the grass; and why he did not enjoy the fragrance of the new cut grass or the flowers growing along the fence row; or why he did not enjoy the sunrises and the sunsets, or the beauties of the sunlit clouds hanging over him at mid-day, or the voice of the musical brook, or the humming of the bees gathering sweets from the flowers, or the gamboling of playful lambs, calves, colts, and the enticing ways of newly hatched chickens or birdlings. The farm is indeed full of poetry and poetical sentiment. The trouble is that we are not always able to see it.

Blasting Holes for Trees.—A reader of Green's Fruit Grower asks for information about exploding dynamite in the soil at the spot where orchard trees are to be planted. This is not a new idea. It is practical and its value has been demonstrated. Such dynamiting would not be necessary in all soils. On a hillside where I planted an orchard when I was a boy the subsoil was almost as hard as a rock and yet the apple trees planted there thrived and made productive orchards. But the trees would have grown much faster had a small charge of dynamite been exploded where every tree was planted just before it was set out. The explosion of dynamite loosens and breaks up the soil to the depth of four to six feet, which is somewhat like deep subsoiling, changing the character of the subsoil and enabling the roots of the trees to penetrate with greater ease. The explosion also breaks up particles of soil so that there is more plant food available. Mr. Hale's method is as follows: Plunge down a crowbar where you wish to set your tree and put in the hole two to four ounces of dynamite and attach a fuse; light your fuse and retire. The dynamite will blow out a hole large enough to set the tree and loosen up the soil at least a foot in every direction—even downward—and the tree can grow and throw out its roots in a mellow soil. The dynamite does the work more thoroughly and cheaper than can be done in other ways. But get an experienced man to handle the dynamite.

Fruit Trees in Fence Corners.—At Green's fruit farm we have planted fruit trees along all the fence rows and also all of the large fields at intervals so far apart that the trees are not at all in the way of plowing or other cultivation. Where the rows of fruit trees run through the fields the rows are ten or more rods apart but the trees are planted closely in each row. The soil along the lines of old fences is almost always more fertile than any other portion of the field. The soil near stone walls is very moist since the stone wall holds the moisture, acting like a mulch. Therefore, trees planted along fence rows are likely to grow vigorously and be remarkably productive. One drawback is that mice are liable to congregate along stone walls or other fences, thus trees planted there must be barked every fall as high as possible or they are liable to have the bark gnawed by mice. I would plant all kinds of fruit trees by fences except peaches. Apples, standard pears and cherries do particularly well there.

Peach Borers.—Charles Kinde, a subscriber to Green's Fruit Grower, asks how peach borers look, and the best time of the year to search for them and destroy them.

Reply: The grub which feeds upon the roots of the peach tree, and sometimes works into the bark at the lower part of the trunk of peach trees, is a white grub varying in size, usually one-half inch in length. In appearance it resembles the white grub which feeds upon the roots of strawberries. Peach trees should be examined early in June every year. This is the best season for destroying them, but if many grubs are found the trees should be examined again in August. Where many grubs are working in a tree you will generally find gum oozing out around the trunk of the tree near the ground, but this gum is not always present when the grubs are at work. It is not a difficult matter to remove four to six inches of earth around the base of the trunk of the tree and to destroy any grub which may be found.

Origin of Ben Davis Apple.—M. R. Perry writes Green's Fruit Grower that the Ben Davis apple did not originate in Virginia as has been stated. He says its original home was in Butler county, Kentucky. A man by the name of Ben Davis planted a seedling apple on his farm. When this tree was in fruit a nursery agent visited him and was so much pleased with the fruit that he took scions and began its propagation. Our correspondent lives near the home of the Ben Davis in Kentucky.

Fruit Juices for Health.—It is conceded by most people that fruits are healthful. The healthfulness of fruits is owing largely to their juices. Many fruits, the orange and lemon especially are made up almost entirely of juices. The juice of the apple and the grape is particularly healthful. A glass of cider or grape juice taken with each meal is far more productive of health and longevity than an equal amount of tea or coffee, and yet many people will take the tea and coffee in preference, deeming it questionable to drink the apple or grape juice. I firmly believe that tea and coffee do great injury to the human race. I do not favor the use of hard cider, but moderately sweet cider I consider a healthful drink; in fact all fruit juices may be considered healthful.

Dead Men.—A gruesome advertisement is that which offers to contract with live people for their bodies after death. Dead bodies are worth \$5 each. The buyer's object is to mount the skeletons which are in demand by physicians or others studying anatomy. How humiliating to think that our bodies on which we have bestowed so much care and attention, and of which some us have been so vain during our lives, are worth only \$5 at death. How humiliating to think that the body of Julius Caesar, or of the President of the United States, after death, is of no more value than that of a pauper who dies in the poor-house. It is life, vitality, energy, intellect, moral tone only which gives value to the human form. There are men living in New York city worth \$500,000,000 alive, who would be worth only \$5 each after death. How important then that we should preserve our health. Is it any wonder that the editor of Green's Fruit Grower is continually telling his readers how to care for their health?

Polite People.—If I meet people at a church sociable, a family reunion, or other social function I find nearly all of them apparently polite, but before deciding positively I must see how they treat their wives and children in their own homes. Before I can decide whether you are polite or not I must ask, are you polite to your wife and children? Truly home is the place where we are tested. It is easy enough to be affable and agreeable to visitors, or to friends whom we meet on the street or at a church, but to be always polite and agreeable in our homes is a more difficult undertaking.

Encouragement.—If we can give some struggling man or woman encouragement each day of our lives we will be doing more good than if at death we endowed a church, a hospital or a university. How many people there are in this world who need a word of encouragement. Sometimes just a word of this character may save a human life. Every person has discouragements, dark days, days of forebodings, days when it seems as though life was not worth living. How serviceable at such moments are words of encouragement. But if instead of encouragement we go through the world bluffing people, snubbing people, causing heartaches and discouragement, we are indeed worse than the beasts.

Blind.—The most remarkable individual of the age is Helen Keller who is blind and deaf and has been so since infancy. Blind and deaf people are usually speechless since it is with great difficulty that they can be taught anything, much

less to speak, but thanks to a marvelous teacher Helen Keller has been highly educated and on her graduating day delivered an essay before a large audience. We who are not blind and deaf cannot appreciate fully the value of seeing and hearing. Almost everything you have learned has been learned through the eyes and ears, in reading, observing and through impressions received through the ear drum. Miss Keller is an attractive and remarkably intellectual person. Having received her education the question before her is how can she make her life most useful to others.

Have a Hobby.—I would not give much for the man who has no hobby. We should all have something in which we are particularly interested, something that continually interests us, something which we are continually studying, something that is ever giving us pleasure and if we have this thing we have a hobby. One of my hobbies is care of health, care of mind and body. I have been continually advising my readers what to do in the way of preserving or restoring health. I expect to continue this work feeling assured that in no other way can I do my readers better service. The two things you all need is more fresh outdoor air to breathe and more pure water to drink. What simple remedies these are. Both may be had without price. They are the cheapest things on the face of the earth, yet there are millions of people who are buried who might be alive to-day if they had appreciated the value of an abundance of fresh air both day and night, and of drinking an abundance of pure water. I can save 500 or more lives each year of the 300,000 people who read my paper if they will follow my instructions, which mainly consist of urging them to breathe more pure air and drink more pure water.

Green Glasses Are Recommended in Oklahoma.—The drought in that region often withers the grass making it less attractive to the animals which feed upon it. A humorous inventor suggests that green glasses might lead the cow to think the grass is still green, therefore he recommends their use.

Ten Nights in a Bar-Room.—I never spent ten nights in a bar-room, or ten hours and yet I have some knowledge of such places. I once traveled fifty miles to see a man and was told that I might find him at a certain bar-room. Arriving at the place I found a small office partitioned off at the front of the bar-room where the man was seated taking his morning drink of whisky and looking over the morning paper. I judged by this and other things that I saw that saloon keepers are accommodating men. Opposite the hotel where I stopped I heard continually during the day and night, speeches, songs, musical selections and music by orchestras. On inquiry I found that this saloon keeper had a phonograph for the entertainment of his patrons. Much might be learned by spending ten nights in a bar-room but I do not thus advise my readers to spend their time. If they did they would find that the saloon man was genial, polite and attentive. They would find the place well warmed and lighted and very likely a free lunch would be exposed temptingly. There is something about eating that tempts people to church, saloons or even worse places. A peculiar thing about saloons is that at the present day no man could spend ten nights there and maintain his reputation in the community.

Influencing Sex.—There have been many theories and experiments relating to this subject but no positive results. Over feeding and partial starvation gave no decided bias either way. Possibly the superior vigor of one parent may control, but in spite of all efforts some seasons result in a large surplus of cockerels and the following a large per cent of pullets. This applies as well to cattle and other animals.

Free Advertising.—Since we desire to make Green's Fruit Grower helpful to those who labor we will for a brief period at least, accept short advertisements from people who desire employment of any kind. We will publish these advertisements in a department by itself. Since we have many more than 100,000 subscribers these notices should be helpful to many of our readers.

He who is honest is noble whatever his fortune or birth.

—Alice Cary.

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WOMEN'S DEPARTMENT

Husbands and Wives.

By the Editor.

A man and his wife, always lovers, were about to go out for an evening. The ground was heavily covered with snow and the walking poor. The wife asked the husband if she should wear a long or a short skirt, stating how difficult it was to hold up a long skirt in walking through the streets. The husband hesitated about the reply, feeling that which ever dress his wife wore she might have wished she had worn the other, therefore he told her to use her best judgment. She wore a long skirt. Then as they were leaving the house for the lecture the wife asked her husband if she should take an umbrella. Without considering the consequences he rashly replied no, since the evening was fine and no indications of a storm. After the lecture the man and wife found that there was a heavy down-pour of rain which was freezing on the sidewalks as it fell, making the walks almost impassable. They had a long distance to walk before reaching the cars which led to their home. They were compelled to walk slowly and by the time they reached the car were thoroughly drenched and the patience of both man and wife was a little strained. Finally in an unguarded moment the wife exclaimed, "You would not let me carry an umbrella." This was a simple statement, and which under ordinary circumstances would cause no anguish, but under the existing circumstances it filled the husband's heart with pain, for he felt the injustice of the remark. If the husband had forbidden the wife to take an umbrella, or objected seriously to the wife taking an umbrella, then she could have thrown the responsibility upon the husband. But he had simply expressed his opinion that an umbrella would not be needed, and now all the mishaps of the evening were thrown upon the husband's shoulders, as he felt. How natural for the wife to make this disagreeable and unjust remark. I do not doubt that the husband had, on other occasions, made similar aggravating remarks to his wife. Husbands and wives the world over are continually making such useless, unwise and love-quenching remarks. It is such little things that often sadden our lives for the moment. When mishaps occur we all feel like finding a scape-goat, some one whom we can blame, whereas the main thing to do under such circumstances is to make the most of them, and to find what can be learned to prevent future occurrences. The husband on this occasion determined that he would be slow about advising the wife again whether to wear a long skirt or whether to carry an umbrella.

Hints for the Farmer's Wife.

Editor of Green's Fruit Grower:—The farmer's wife's work may be made much easier by having a day set apart in which to do certain kinds of work, and by keeping up this system throughout the year. She should train the children to help her. The boys have to help the father, but should he get all the help? She can save herself many hours of hard labor by dressing her children plainly and suitably. She ought to have a good cook stove and not a steel range. A food chopper, egg beater, fruit press and by all means an apple parer should be found in every farm-house pantry. The four can be bought for \$2.00 and one of them will save \$2.00 worth of time in a year to say nothing of the labor and material. A good egg beater can be obtained for 10 cents and yet many women still beat

Nothing Better—Because it is Best of All.

For over sixty years Mrs. Winslow's Soothing Syrup has been used by mothers for their children while teething. Are you disturbed at night and broken of your rest by a sick child suffering and crying with pain of Cutting Teeth? If so send at once and get a bottle of "Mrs. Winslow's Soothing Syrup" for children teething. Its value is incalculable. It will relieve the poor little sufferer immediately. Depend upon it, mothers, there is no mistake about it. It cures diarrhoea, regulates the Stomach and Bowels, reduces Inflammation, and gives tone and energy to the whole system. "Mrs. Winslow's Soothing Syrup" for children teething is pleasant to the taste, and is the prescription of one of the oldest and best female physicians and nurses in the United States, and is for sale by all druggists throughout the world. Price, twenty-five cents a bottle. Be sure and ask for "Mrs. Winslow's Soothing Syrup." 1840-1892.

their eggs with a fork. If a farmer's wife has a talent for painting, writing, music or any kind of fancy work it is her duty to leave her heavy work once in a while and spend a little time at some enjoyable task. A day's picnic or outing with the children will often revive one's spirits and the relaxation may be the means of saving a doctor's bill. Every family circle may be benefited by the practice of reading good literature aloud evenings. Selections can be made which will suit different members of the family and each one can take their turn at reading. In this way the boys may be induced to spend their evenings at home.—Connecticut farmer's wife.

Apache Beadwork.

Since mentioning beadwork in Green's Fruit Grower some of the girls have written me saying they would like the work but cannot afford an outfit. A loom may be easily made with a smooth piece of lath or a yard stick, such as are used for advertising purposes. Cut from it two pieces fourteen inches long, two pieces four inches long; with slim brads nail the short pieces on each end of the long ones. Cut slight grooves in strip on upper end of frame to hold threads apart. No. 50 thread will do for the warp for No. 5 beads. Measure the thread the length you wish the chain, allow a few inches for fringe if you wish. Tie warp to lower end of loom drawing up through dividing grooves and wind around very tight. With No. 100 thread, a No. 10 sharp sewing or No. 14 bead needle, double and waxed thread tied to the outer thread of lower end of warp, having one or more threads of warp than the number of beads in row, string onto the weaving thread the number of beads for a row, following pattern as to colors. Pass needle with beads under warp to right; with the forefinger of left hand press beads upward till each bead comes between two threads of warp leaving a thread of warp outside on each side. Hold in place while you run needle with weaving thread on top of the warp through beads pulling the thread tight, thus securing the beads firmly. Pass needle back to right string and proceed as before. When end of thread is reached run needle back through a few rows to fasten. One pattern, Greek, is of turquoise blue and white thus: First row: 5 blue; 2d, 4 white, 1 blue; 3d, 3b, 1w, 1b; 4th, 1 b, 1 w, 1b, 1 w, 1b; 5th, 1 b, 1 w, 1b; 6th, 1b, 1w. Repeat. Before beginning the work grade beads by stringing over coarser needle than the one you weave with, culling out small or imperfect beads.—Mrs. L. Jennings.

Italian Embroidery.

Written for Green's Fruit Grower by S. H. H.

I know of no better way to make pin money than by making the last fall called Italian embroidery. This is speedily made and is the most unique and exquisite work I ever saw of the kind. Get wash chiffon or sheer white muslin, three yards being enough for a waist, have it stamped with your favorite flower. You can get them stamped where such work is done. Use the coarse floss which is used so much in embroidery, working on the wrong side, which work shows up exquisitely on the right side and puzzles nearly every one to know how it is done. A young lady with us who embroiders very rapidly and neatly, has been filling orders as rapidly as she works them. They are worn over silk slips of blue or pink. Great care should be taken in washing them.

Salt is most excellent for cleansing the teeth. It hardens the gums and sweetens the breath. If used persistently enough, salt will cure nasal catarrh. A weak brine should be made and snuffed up the nose, allowing it to run down the throat. There is nothing better for the relief of tired or weak eyes than to bathe them with a strong solution of salt and water applied as hot as it can be borne. Salt rubbed on the black spots on dishes will remove them, and salt placed over a fresh claret stain on the table linen will assist it to disappear when washed. One of the most effective remedies known for a sick headache is to place a pinch of salt on the tongue and allow it to dissolve slowly. In about ten minutes it may be followed by a drink of water. The colored Japanese straw matings which are so generally used as floor coverings are best kept sweet and clean by washing them with a solution of salt and water after the weekly sweeping. A fresh ink stain on a carpet may be removed by immediately applying a layer of salt. The ink will be absorbed, and when the salt is black it should be removed and another layer applied, repeating the operation until the ink is removed and the carpet returned to its former appearance.

Some cooks add the grated rind of a lemon to the bread stuffing of a turkey.

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Hints to Housekeepers.

An eminent authority on nerves recommends for insomnia a cup of hot milk, to be taken after getting into bed. A well-known statesman, among others, is said to have taken this cure with complete success.

Cranberries are said to be a powerful tonic. Eaten freely after typhoid fever, they clear the system, and some dyspeptics carry them in their pockets and eat them raw.

Vaseline and coconut butter, mixed in equal proportions, are recommended for stimulating the growth of the eyebrows. The preparation should be rubbed in carefully, but thoroughly, every night. Care is essential in doing anything with the eyebrows, because the hairs are not, as a rule, very numerous, and the unnecessary loss of one is a matter of importance, especially when one is doing her best to cultivate them.

A certain beauty doctor recommends her patients to eat an apple every night shortly before retiring. This is in direct contradiction to the old theory that apples should not be eaten at night. "Fruit is gold in the morning, silver at noon and lead at night," runs the adage, and most people have believed it and avoided fruit of any sort in the later part of the day as if it were the plague. The apple is known to be a most wholesome fruit. Persons who eat a great many raw apples are seldom a prey of dyspepsia. An old Scandinavian legend says the gods resort to apple eating when their mental and physical powers need refreshing. Ordinary mortals might imitate the gods to advantage.

This ointment is very fine for softening the finger nails: One ounce of petrolatum, sixty grains of powdered white castile soap, five drops of oil of bergamot. It should be applied at night.

When frying oysters add a little baking powder to the cracker dust or cornmeal in which they are rolled. It improves both texture and flavor.

A cornmeal bath is helpful both for hands and complexion, when they get rough and harsh looking. Wash first in warm, soapy water, made with an olive-oil soap, then dry with a soft towel and rub in cornmeal. Let it remain on all night, wearing gloves on the hands, in order to keep the meal from rubbing off. A few "baths" of this sort will generally whiten and soften the skin appreciably.

Olive Sauce for Roasted Meat or Game.—Place twenty olives in a basin of water for thirty minutes. Put on the fire in a saucepan a sliced white onion and three tablespoonfuls of salad oil. Stir until the onions begin to brown, sprinkle over with two tablespoonfuls of sifted flour, and stir until smooth. Add a pint of rich broth from which the fat has been removed, and let the whole simmer. Remove the stones from the olives, add them to the sauce and season with salt and pepper. Let the sauce simmer for ten minutes longer, and just before serving squeeze in the juice of a lemon

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EDITORIAL

Does It Pay to Write?—A subscriber to Green's Fruit Grower asks information regarding the prices paid to writers for papers and magazines for poetry and other articles, asking whether considerable money cannot be made in that way by talented people.

Reply: So far as I am able to judge writers of poetry, stories, essays, etc., are poorly paid as a rule. Most writers would be surprised to learn that where one article is accepted for a magazine perhaps ten, fifty, or 100 have been rejected, and yet those rejected might appear to most people to be equally as good as the one accepted. The one accepted appealed to that particular publisher for reasons best known to himself. He may have rejected others more valuable than the one accepted. If the writer could be sure that his work would be accepted at even a moderate price he might, if talented, receive considerable money during a year for his work, but this is seldom assured. I know of no less profitable occupation than that of writing poetry unless one has an established reputation and is well known to publishers. There would seem to be a vast number of people throughout the country who can write fairly well. The amount of manuscript written by these numerous individuals floods the country. But this should not deter any one from trying, that is by submitting his work to publishers.

Low Branched Trees.—In order to make low branched trees of one year old apple trees simply cut them back to the point where you desire the top to branch out, which should be from two to four feet from the ground. If more branches are needed cut off to within six inches of the trunk some of the branches the second year.

The Coming Man.—Every age is looking for the coming man. That is, some leader with characteristics so marked that he leaves his impress upon the ages that follow. In every crisis of American history, and in fact of the history of the world, some great man has arisen who has solved the problem of the hour as no one was able to solve it before. At this hour the coming man is needed to solve the problem between labor and capital. The coming man may also solve the temperance problem. We need something more than a temperance agitator. We need a man who will get down to first principles, down, down, far down below the surface of temperance affairs.

In Debt.—In ancient days it was a terrible thing to be in debt. There was a time when if you were owing me money which you could not pay, the law would allow me to make you my slave. Or, I might chain you in a dungeon, or I might destroy your life if the debt was not paid at a certain date. Shakespeare, in the Merchant of Venice tells of a law which allows the creditor to cut a pound of flesh from the body of the man who is in debt and who is unable to pay. The laws of late years are far more lenient and yet it is only of comparative recent years that men are exempt from imprisonment for debt. Nevertheless, there are many at the present date who are enslaved by debt. These men have mortgaged their farms or their homes without forethought, without seeing their way clear-

ly in advance to pay these mortgages, and thus have become enslaved. This does not mean that no person should run in debt. There are times when it is profitable to do so. It means that we should hesitate and consider wisely before running in debt.

Saving Money.—Said McCauber to David Copperfield, "If you earn twenty pounds a year and spend nineteen pounds and six pence, this means happiness. But if you earn twenty pounds a year and spend twenty pounds and six pence, that means misery." McCauber was right. If we save a little every week, every month, every year, we are on the road to prosperity. But if we spend a little more than we earn each week, each month, each year, we are on the road to the poor house, to despondency, to financial ruin.

Build that Ice House.—You have probably been without ice during all the past years simply for the lack of an inexpensive ice house, which you and your boys could have built yourselves, at an expense of not over \$25. The essential points of an ice house are first the drainage. The floor must be at least a foot above the ground and the water must be free to escape beneath this floor. The flooring must be strong. There should be a six inch space between the outside covering and the inside which should be filled with sawdust permanently, the sawdust never being removed from this space. Then put eighteen inches of sawdust over the floor and upon this place the blocks of ice, leaving between the ice and the sides of the building a space of at least eight inches. Fill this eight inch space with sawdust, packed in tight, and after the house is full of ice put two feet of sawdust over the top. Then give ventilation to the top of the ice house, and have the roof tight enough to keep out rain, and you will have no difficulty in keeping ice.

I am an admirer of White Plymouth Rocks. They are the most noble fowls that ever grew feathers. They have more good qualities combined than any other fowls. Fifty years ago I bought two settings of White Plymouth Rock eggs from one of the best breeders, paying a very large price. Ten hens and pullets have laid 184 eggs apiece and have earned me \$3.04 each. I have two pullets hatched May 16th last, one laid to January 24th, 52 eggs, the other 45 eggs.—Philippe Beaulac, N. Y.

What Will the Year Bring Forth?—How difficult it is to forecast the results of the coming fruit season. Everything looks promising at the present time. Even peach buds are not supposed to be seriously injured by the severe winter in Western New York as a rule. No one can tell what the results may be of late spring frosts. The fact that the ground has been heavily covered with snow all winter is in favor of a good fruit crop.

Conditions of Weather.—Dry spells or prolonged wet spells make great changes in fruit crops. Rains and droughts have peculiar effects upon insects and fungus diseases. The early part of last summer in Western New York was exceedingly dry. Fungus diseases were not so injurious on this account and apples were never finer or fairer. But this prolonged dry spell encouraged the aphids and they did most serious work upon the soft green wood of growing trees and plants. The present winter is the most severe known to the oldest inhabitant. Such winters destroy myriads of insects

and their eggs. In this way severe winters are very helpful. Let us hope for a prosperous season, but meanwhile let us be prepared with spray pumps and insecticides so that when injurious insects do occur, or fungus diseases we will be ready to fight them without a moment's delay.

Planting Apple Orchards.—There are not nearly so many young apple orchards being planted in New York state as there are in many of the middle or Western states, and yet New York state has the reputation of growing the finest apples in the world. This is perhaps owing to the fact that apple growing is not a new thing here, whereas in many other states it is a new enterprise, and therefore attracts more attention. There are thousands of acres in this state, rolling or elevated land of a gravelly or clay loam, which should be planted to orchards without delay. The owners can rest assured that there is no method of making such soil so productive of wealth as the planting of apple orchards.

Peach Orchards.—While the peach tree is not so enduring as the apple tree, one crop of peaches often pays for the land the orchard occupies. A neighbor near Rochester has planted twenty acres to peach trees. He cuts back the new growth at least one-half every spring, thus each tree is a beautiful rounded specimen, and the orchard is an object of beauty. He gives the soil careful cultivation. This, the third year, it is expected that the trees will bear a good crop of fruit. They bore some fruit the second year from planting. There is no fruit more saleable than the peach. An acre of peaches brings a large amount of money. I would not do as my neighbor has, plant the entire orchard to one variety, the Elberta, since this throws all of the picking into a short space of time, whereas if the orchard was divided into three or four varieties ripening at different seasons, he could harvest his peaches with less help and less expense.

Moving Large Apple Trees.—J. W. Layne has purchased a valuable seedling apple tree that has borne fruit for several years, and he asks whether it is possible to move this tree from a neighboring farm to his own farm. In reply I will say it would not be wise to attempt to move this tree, at least until he has grafted some of the scions into other trees, since it is possible the tree might die, in which case the variety would be lost. My advice would be not to move the tree at all as it is so easy to graft scions of it into bearing trees. It would cost from \$10 to \$20 to transplant this large apple tree, and it might never make a vigorous tree even if it should live. It is possible to transplant trees of almost any size, but the expense is something fearful to think of. One might even spend \$500 to \$1,000 in moving one large tree.

Apples \$1.00 per box. This is an attractive offer of apples at any grocery. Supposing the grocery has a dozen bushel boxes of apples to sell and as many barrels. I am confident that the card announcing superior apples at \$1.00 per box would sell much faster than the card announcing apples at \$2.00 or \$3.00 per barrel. Many people cannot pay more than \$1.00 at a time for apples and would not buy more than a bushel for fear they might rot. We are in favor of the bushel box for apples.

ALL KINDS Children going to school? Then put HOOD'S on their feet.

Ask for Plymouths. MADE FOR the Whole Family as well.

SOLD EVERYWHERE

HOOD RUBBERS

TRADE MARK

HOOD RUBBER COMPANY BOSTON

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\$10.95 NEW STEEL RANGE.

FOR \$10.95 we will sell this new, handsome, nickel trimmed, 1904 model, square steel range (with reservoir or closet, as illustrated, a trifle extra). For full particulars, how we make our steel ranges thicker, heavier, stronger, handsomer and better than any other ranges made in the world; for our three months' free trial offer, safe delivery guarantee, pay after received terms, for picture of our foundry, the largest stove foundry in the world, cut out and return this ad, and our Free Stove Catalogue of everything in steel and cast iron stoves and ranges will be mailed at once. With our Free Stove Catalogue you get the most astonishing stove offer ever heard of.

Address SEARS, ROEBUCK & CO., CHICAGO, ILL.

Warranted the Most Practical Machine Made

STUMP PULLERS

3 Styles 9 Sizes, \$25 to \$150

HANDY FARM WAGONS

TILE DITCHER

Cuts 100 rods per day, BEST CORN HARVESTER

MADE. Cats. Fred H. L. Bennett & Co. WESTERVILLE, O.

Wire Fence

Build it yourself of Galvanized Steel Spring Wire with our Wire Fence Machine. Cost Light. Service Great. Beats any ready made fence. Write and learn why. We will tell you how to grade a fence at cost of wire only. Illustrated Catalogue Free. Carter Wire Fence Machine Co. Box 55, Mt. Sterling, Ohio.

FENCE! STRONGEST MADE. Bull Strong, Chicken Tight. Sold to the Farmer at Wholesale Prices. Fully Warranted. Catalog Free. COILED SPRING FENCE CO. Box 100 Winchester, Indiana, U. S. A.

IF A HEAVY HORSE

should run right into our 2-1/2 Bar, 54-inch Post Fence, it would stop him, not hurt him or damage the fence. It weighs ten pounds to the rod, and is stronger than most stock fences.

Page Woven Wire Fence Co., Box 78, Adrian, Mich.

Peach, Plum, Pear, Cherry and Apple Trees at fair prices. Send for circular.

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CIDER MACHINERY

Kneading Joint & Screw Presses, Graters, Elevators, Pumps, etc. Send for Catalogue

Boomer & Boschert Press Co., 347 W. Water St., Syracuse, N. Y.

SPRAYING CALENDAR.

Tabulated to assist fruit growers in spraying at the right time and with the correct solution. The italicized applications are most important. Compiled in condensed form for popular use from a Spraying Calendar arranged for the Cornell University Agricultural Experiment Station, Ithaca, N. Y., by E. G. Lodeman, Assistant Horticulturist.

NAME OF PLANT.	VARIOUS APPLICATIONS OF SPRAYING SOLUTIONS.				INSECTS AND FUNGI.
	FIRST APPLICATION.	SECOND APPLICATION.	THIRD APPLICATION.	FOURTH APPLICATION.	
APPLE	When Buds are swelling. Copper Sulphate Solution.	Before Blossoms open, Bordeaux. For Bud Moth, Arsenites when Leaf Buds open.	When Blossoms have fallen, Bordeaux and Arsenites.	Eight to 12 days later, Bordeaux and Arsenites.	Scab, Codling Moth, Bud Moth.
CHERRY	As Buds are breaking, Bordeaux. When Aphid appears, Kerosene Emulsion.	When Fruit has set, Bordeaux Mixture. If Slugs appear, dust Leaves with Air Slacked Lime, Hellebore.	Ten to 14 days later, if Rot appears, Bordeaux Mixture.	Ten to 14 days later, Ammoniacal Copper Carbonate.	Rot, Aphid, Slug.
CURRENT	At first sign of Worms, Arsenic.	Ten days later, Hellebore. If Leaves Mildew, Bordeaux Mixture.	If Worms persist, Hellebore.		Mildew, Worms.
GRAPE	In spring when Buds swell, Copper Sulphate Solution. Paris Green for Flea Beetle.	When Leaves are 1 1/2 inches in Diameter, Bordeaux. Paris Green for Larvae of Flea Beetle.	When Flowers are open, Bordeaux. Paris Green as before.	Ten to 15 days later, Bordeaux Mixture.	Fungous Diseases, Flea Beetle.
PEACH	Before Buds Swell, Copper Sulphate Solution.	Before Flowers open, Bordeaux Mixture.	When Fruit has set, Bordeaux Mixture.	When Fruit is nearly grown, Ammoniacal Copper Carbonate.	Rot and Mildew.
PEAR	As Buds are swelling, Copper Sulphate Solution.	Before Blossoms open, Bordeaux. When Leaves open, Kerosene Emulsion for Psylla.	After Blossoms have fallen, Bordeaux and Arsenites. Kerosene Emulsion if necessary.	Eight to 12 days later, repeat third application.	Leaf Blight, Scab, Psylla, Codling Moth.
PLUM	Early in Spring when Buds swell, Copper Sulphate Solution.	When Blossoms have fallen, Bordeaux Mixture. Begin to jar trees for Curculio.	Ten to 14 days later, Bordeaux Mixture. Continue jarring trees for Curculio.	Ten to 20 days later, Bordeaux Mixture. Keep on jarring trees for Curculio.	Fungous Diseases and Curculio.
POTATO	For Scab, soak seed 1 hour in Solution 16 gals. water to 2 oz. Corrosive Sublimate.	When Beetles first appear, Arsenites.	When Vines are two-thirds grown, Bordeaux Mixture and Arsenites.	Ten to 15 days later, Bordeaux Mixture.	Scab, Leaf Blight and Beetles.

If you want the formulas (recipes for making) write us, or your State Experiment Station, enclosing stamp for reply.—C. A. GREEN.

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EYE DISEASES CURED WITHOUT SURGERY

BY THE
DISSOLVENT TREATMENT
AS USED ONLY BY
DR. OREN ONEAL
52 DEARBORN ST.
CHICAGO

A Postal Gets This Book

I WANT the name and address of every person, Man, woman and child, In every country on the globe, Who is troubled in any way with their eyes. If you are not afflicted send me the names of your neighbors or friends who are. You will be conferring a favor on them. I will send to each name and address My book (24th edition) illustrated above. It contains much valuable information About the eyes, diet, bath, exercise, etc; Tells how sight can be restored to the blind And all eye diseases cured At patient's own home Quickly and at little expense. I have for more than twenty years been Treating and curing all manner of eye troubles in all parts of the world. Those who are afflicted in any way with their eyes are Welcome to my opinion free of charge. Just write me a short history of your case As you understand it. I will write you a personal letter of advice which with My book will be of great value to you.

Some Symptoms of Serious Eye Troubles

Dimness of vision
Seeing spots, specks, etc., dance before your eyes
The atmosphere seems smoky and foggy
Seeing better some days than others
Seeing better sideways than straight forward
Seeing better in the evening or early morning than at midday.
Seeing objects double or multiplied
Seeing a halo or circle about a lamp light
Pain in or about the eyes
Constant or periodic headaches.

If you have any one of the above symptoms You should seek my advice at once. I have never made a promise which I did not fulfill.

If you should at any future time require my services and I do not fulfill every promise I make to you I will refund every cent of money you pay me.

My liberal offer may mean much to you. Every reader of Green's Fruit Grower knows that I am thoroughly responsible or my advertisements could not appear in these columns as they have regularly for years.

I Have Restored Sight to Thousands.

HERE are two letters which tell the invariable experience of my patients:

78 Niagara St., Buffalo, N. Y., Oct. 24, 1902.

Dr. Oren Oneal:—Though my mother has only been using your treatment for three months, I take great pleasure in sending a letter expressing our gratitude for the relief you have afforded her. I have never had any faith in advertised remedies, but shall always be thankful that I made the exception in your favor and wrote you. As you know, she had nearly lost the sight of the left eye, and the Cataract was half over the right. Now she can use both eyes with no difficulty whatever, reading and sewing with ease, and the relief from fear of total blindness is in itself worth many times more than the amount your treatments cost. I wish I could reach everyone suffering from cataracts and beg them to consult you at once, and have the greatest of all blessings—sight—restored to them. Hoping that you may be spared many, many years to come to carry on the good work, I remain

Gratefully yours,

Mrs. M. H. Southwick.

One Year Later

Dear Doctor:—I enclose you herewith a few addresses of persons who have written me for information regarding my mother's case. Am interested to know how many had faith enough to commence treatment. I know my lack of faith, as I classed your ad, with the many one sees in magazines and newspapers, and only for its being the last chance would never



have tried it. My mother's health has been poor all winter; the greater part of the time she has been unable to sit up much. The condition of the sight remains the same, and her only means of passing the time is to read, and without regard to print. This is pretty positive proof that the growths have been dissolved. I have had a number of people call on me in regard to her case, who came for friends, and all seemed to be satisfied that the facts as stated in my letter were true. I believe you understand me well enough to know that my efforts in your behalf have been solely from a desire to help others, and were prompted by gratitude. I am sending you a picture of my mother, Mrs. Rifle, being the only one we have of this style, except our paintings.

Sincerely yours,

Mrs. M. H. Southwick.

THIS book will tell you How to care for your eyes, How to diet, bathe and exercise.

How you can cure yourself at home of Blindness resulting from

Cataracts,
Optic Nerve diseases,
Glaucoma,
Iritis,
Opacities, Scums, Scars and Films,
Eye Strain,
Granulated Lids and Pannus,
Pterygium, etc.

In from one to three months.

Here are the names of a few I have cured. Write them and convince yourself:

Mrs. S. C. Willard, Libertyville, Ill., cured of Cataracts of 20 years standing; William Cronoble, Winslow, Ill., cured 10 years ago of Cataracts; Mrs. Anne E. Simmons, Hobart, N. Y., Paresis of Optic Nerve; Mrs. E. M. Cooper, Ridgeway, Minn., cured of Stenosis of Tear Duct; Mrs. Herman Burdick, Richland Center, Wis., cured of Hemorrhage of the Retina, which had blinded her; Albert J. Staley, Hynes, Los Angeles County, Cal., cured of Cataracts of 22 years standing; Mrs. C. H. Sweetland, Hamburg, Iowa, cured of Paresis of Optic Nerve; Mrs. Jane Hunt, Birmingham, Vt., cured of Granulated Lids and Iritis; Miss Ella H. Heacox, Box 224, North Yakima, Wash., cured of Weak Eyes and Congested Optic Nerve; Mrs. Julia Lambert, 29 Whitney St., Nashua, N. H., cured of Cataracts; E. Kaye Allison, care Bank B. N. A., St. John, N. B., Canada, cured of Congested Optic Nerve; Mrs. Emma I. Carter, Tenstrike, Minn., cured of bad case of Granulated Lids and Optic Nerve Paralysis of 22 years standing.

Just send for the book.

Don't send any money—not even a postage stamp is necessary.

Physicians either advise the "Knife" or say "Nothing can be done" when consulted in such cases as Mrs. Rifle's or the others whose names are given here.

I cure such cases in the patient's own home, easily, quickly and at small expense.

Just at present all I ask you to do is to send for the book.

It will be sent free of expense to any part of the world.

If you wish my advice

Describe your case the best you can and

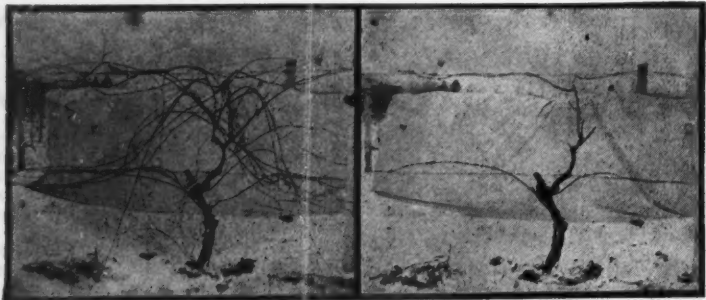
I will write you a personal letter.

The book and advice are both free and may be all that is necessary to effect a cure in your case.

Address

OREN ONEAL, M. D.,

Suite 911, 52 Dearborn St., Chicago, U. S. A.



PRUNING GRAPE VINES.

Many beginners in grape growing would think that the vine shown at the right in the above cut had been pruned too severely, but the experienced vine dresser would claim that the pruned vine at the right has enough wood left upon it. The cut at the left represents the same vine before pruning. Most people who have but few vines leave far too much wood in pruning. They do not cut away half enough when they prune the grape vine. This is the season when grape vines should be pruned. If the work is delayed until leaves have opened the sap will escape from the points where the vine is cut. While the vines will recover from this loss, it is a loss of vitality. We have seen grape vines cut even closer than the one shown at the right and yet be well laden with fruit in the fall.

STRAWBERRIES GROWN IN GRASS AND WEEDS.

William Rideout asks Green's Fruit Grower for information in regard to easy methods of growing strawberries without much cultivation as stated in a recent communication.

In reply I will say that Green's Fruit Grower has not had much to say about careless methods of growing strawberries since we have not desired to encourage careless culture of anything. It is true, nevertheless, that a strawberry bed will bear large quantities of fruit under neglect when the beds are overrun with weeds and grass. This fact is proven by the wild strawberry which bears abundantly without any cultivation. I have seen the ground covered with red fragrant wild strawberries that were growing in a low meadow when I was a child. At Green's fruit farm we often allow old plantations of strawberries to bear year after year without much cultivation, knowing from experience that these old beds will, in most instances, produce a large amount of fruit which costs but little, if anything. How long the old beds are allowed to remain depends upon the variety. Some varieties run out much earlier than others. Corsican, Jessie and Glen Mary will fruit long in the old beds. We cultivate our strawberries in the narrow matted row system. The first year the plants are carefully hoed and cultivated. I do not see how strawberries can be given a good start unless they are well cultivated the first year, and yet possibly they can as was stated in an article in our last issue. The first year's crop is always the best, providing the season is equally favorable, but the fifth crop on the same plantation has often been a surprise as regards the yield and the large size of the fruit. The second year many perennial plants are found in the strawberry rows, such as dock, May weed, clover and timothy. The cultivators are started between the rows the second year and every year after and the soil is kept worked through until nearly up to the time when the berries begin to ripen, then cultivation stops. Every season so long as the beds are allowed to remain, we go through the rows with hoes or mattocks after the berries are picked, cutting out the weeds. While this is our method I am confident that large quantities of strawberries can be

SPRAYING FRUIT TREES.

The question of spraying fruit trees to prevent the depredations of insect pests and fungus diseases is no longer an experiment but a necessity.



Our readers will do well to write Wm. Stahl, Box 4, Quincy, Ill., and get his catalogue describing 31 styles of Spraying Outfits and full treatise on spraying the different fruit and vegetable crops, which contain much valuable information, and may be had free.

grown with absolute neglect of any cultivation. Success in such cases of neglect will depend largely upon the soil, upon its fertility, its tendency to moisture, or dryness. The strawberry is a marvelous fruit, it will respond to the highest cultivation but will yield marvelous returns under neglect. I have thought that the strawberry loves to be a little in the shade and yet it will not thrive where the roots of trees are feeding upon the soil. I remember when a child watching daily a strawberry bed in a neighbors' garden that joined our own. This bed was partially shaded at the south by a fence and by shrubbery; the strawberries there were remarkably large and numerous. While there is a disadvantage in having weeds and grass in strawberry rows there is a little compensation in the fact that the fruit is shaded partially from the hot sun. If the soil in these neglected beds is somewhat moist and fertile, and the plants continue to be vigorous, the prospects for a fair crop there are good in spite of the weeds and grass. I trust none of our readers will be induced to neglect the cultivation of their strawberry beds on account of that which I have written in this article. It is best to give good cultivation.

WHY NOT ALL FRUIT.

A friend of Green's Fruit Grower asks why we do not devote every page of Green's Fruit Grower to fruit growing. This friend desires that every detail of fruit growing should be given month after month, in Green's Fruit Grower, and nothing else. In order to meet his views we would be obliged to continually repeat, month after month, directions for planting, pruning, spraying, grafting, budding, harvesting, barreling, storing and marketing fruits with all the various details. If we did this our magazine would be exceedingly dull reading for many people. The editor must consider the greatest good for the greatest number. He cannot edit his paper simply to please a few and do all justice. In almost every family the wife, daughters and sons must be considered since they are all readers of Green's Fruit Grower. If we made the paper, as our friend desires it, the wife and daughters would never open its pages, nor would the sons, unless they were particularly interested in fruit culture. One aim of Green's Fruit Grower is to interest people in fruit culture who are not now interested by making ours a family magazine of interest to every member of the family. We induce every member of the family to read that which will interest them in fruit culture which they otherwise would not read. If we can interest two to three hundred thousand people in fruit growing, if we can make them see that it is a delightful occupation, one that promotes the welfare of the human race, we shall be doing much good. The little minor details of fruit growing cannot be continually repeated in the same publication without wearying many readers. In fact more may be learned by observation and study on the part of the reader himself, who should visit other fruit growers, attend horticultural meetings and in various ways learn for himself. The best teachers are not those who stuff the minds of their students with a mass of detail. The best teachers are those who are suggestive, those who aim to interest the scholar so that he will teach himself to a certain extent under the guidance of the master. No publication filled entirely with details of instructions for fruit growers will ever have a very large circulation.

What To Be Proud Of.—Aristocracy prides itself on leisure, birth and wealth and yet a man may be a scamp, a blackguard, a loafer, a vile creature and still have leisure, and still be well born, and still have wealth. Christ teaches us the full measure of a man, but he would not measure a man by his leisure, his birth or by his bank account. He would measure a man by his character, by his compassionate heart, by his truthfulness, honesty and integrity.

Have you looked over the farm harness and the road harness to see whether repairs are needed there or not? Now is the time to attend to such things before the busy season opens.

DON'T SEND US A CENT

We Prepay All Transportation Charges, and deliver this ideal **STANDARD WASHER** direct to your door without asking you for a penny in advance. Just drop us a line, stating that you need or can use a washer in your family, and we will immediately ship one with all transportation charges prepaid.

30
DAYS
FREE
TRIAL



A STANDARD WASHER is different from any other you ever saw. It cleans the clothes of a small wash as well as a large one. It takes the dirt as thoroughly out of the wristbands, neckbands, collars, etc., as it does out of sheets, pillow cases and table cloths. It will wash one pair of socks as cleanly as it will a tubful of sheets. With the double rotary motion you do the same amount of cleaning with ONE HALF the amount of labor and within a quarter of the time that any other washer requires. We don't ask you to accept our word for this, we simply want an opportunity to prove to you, without asking for a cent of your money, that our Standard Washer will do all that we claim for it. It don't cost you a cent to make the test, we deliver it free of charge right to your door. You keep it and try it for thirty days. If you do not find it does all and even more than we claim for it, if you don't find it to be the easiest working machine you ever saw or heard of, if you don't say after thirty days' trial, that it is a heaven-sent blessing to every woman who has to wash clothes, then we will be glad to make you a present of the machine, free of any charge whatever. If you want us to send a washer **FREE ON TRIAL**, for use in your own family, or if you want to act as our agent in your neighborhood, send us your name and address and you will hear from us by next mail. **WIARD MFG. CO., 63 West Ave., East Avon, N. Y.**

Please mention Green's Fruit Grower.

ACME Pulverizing Harrow

Clod Crusher and Leveler.

SIZES 3 to 13 1/2 feet
Agents Wanted.
The best pulverizer—cheapest Riding Harrow on earth. We also make walking ACMEs. The Acme crushes, cuts, pulverizes, turns and levels all soils for all purposes. Made entirely of cast steel and wrought iron—indestructible.
Sent on Trial
To be returned at my expense if not satisfactory. Catalogue and Booklet "An Ideal Harrow" by Henry Stewart, sent free.

I deliver f.o.b. at New York, Chicago, Columbus, Louisville, Kansas City, Minneapolis, San Francisco, Portland, etc.
DUANE H. NASH, Sole Manufacturer, Millington, New Jersey.
Branch Houses: 110 Washington St., CHICAGO. 240 7th Ave. So., MINNEAPOLIS. 1316 W. 8th St., KANSAS CITY, MO. 218 E. Jefferson St., LOUISVILLE, KY. Cor. Water and W. Gay Sts., COLUMBUS, OHIO.
PLEASE MENTION THIS PAPER.



Works on either standing timber or stumps. Will pull an ordinary Grub in 15 minutes. Makes a clean sweep of Two Acres at a sitting. A man, a boy and a horse can operate it. No heavy chains or rods to handle. The crop on a few acres the first year will pay for the machine. Send postal card for Illustrated Catalogue, giving price, terms and testimonials. **MILNE MFG. CO., 825 8th St., Moamouth, Ill.**
(Address Milne Bros. for Sheldahl Pony Catalogue.)

Please mention Green's Fruit Grower.



THE GREAT WESTERN Manure Spreader
is the only Spreader **ENDLESS APRON** and made that has as many advantages which it possesses. It's always in place and ready to receive the load without any turning back either by hand or complicated, easily broken machinery. The front and rear axles are of same length which, with the Broad Tires Prevents Rutting of fields, meadows, etc. and makes wet, dry, frozen, light, chaffy, packed or caked. Spreads lime, plaster, wood ashes, cotton-seed and hulls, etc. Can be changed instantly to spread thick or thin while the machine is in motion—2 to 25 loads per acre. **END RATE AND BEATER AND HOOD PROTECTOR IN USE.** Made of best material. **POSITIVE GUARANTEE** will be replaced without charge. Write for free Illustrated and Descriptive Catalogue—the best and most complete spreader catalog ever published.

SMITH MANURE SPREADER CO. 16 & 18 S. CLINTON STREET, CHICAGO, ILL.

Please mention Green's Fruit Grower.



THIS LITTLE BOOK, under paper cover, gives the experience of the editor of Green's Fruit Grower in beginning and succeeding at fruit culture on a fertile but run down farm, after having spent fifteen years behind a bank counter in a large city. Those who are about to begin fruit growing will get many suggestive hints and words of encouragement by reading this book, containing sixty-four pages, well illustrated. We will mail this book, postpaid, for twenty-five cents, or will send it as a premium to all who send fifty cents for Green's Fruit Grower one year, and claim this premium when subscribing.

WHAT TO DO NEXT

Do not forget the pruning of apple, pear, plum, cherry and peach orchards at this date, also the pruning of grape vines.

Have you looked over the farm wagons, plows, cultivators and other tools to see whether they are in good repair? Have you put in repair those tools that need it?

Pulling Horses.—I know of nothing better than a strong rope or strap which goes over the head, then through both bits and buckles or snaps close to the bit for holding the pulling horse to a hitching.

Have you sent in your orders to the nurseries for trees, plants and vines which you intend to set out this spring? Do not delay this work.

Have you sent in your orders to seedsmen advertising in Green's Fruit Grower, for garden or field seeds?

It is time the hot bed or cold glass frame was started, in which to start tomato, lettuce, cabbage and other garden seeds.

Have you ordered your supply of quart berry baskets, crates and other supplies for the strawberry and raspberry season. Many fruit growers order now their grape and peach baskets, or at least a moderate supply so they can be sure to have them on hand. It is folly to wait until a short time before you want these supplies since often you cannot get them quick enough at that late date.

Oil the Harness.—First soak the harness in warm water and scrub it with soap and water and a stiff brush, removing all of the sweat and dirt that has accumulated. Then apply neatfoot oil. The easiest way to apply the oil is to partially fill a tub or boiler with two feet of water as hot as the hands can bear. Then pour the oil into the water. The oil will float on the surface. Then by dipping pieces of the harness in this water the oil will cling to every part of the harness as it is removed. Later the oil can be worked into the leather evenly with the hands. But this is not much better than the ordinary method of applying the oil freely with a saturated cloth.

PROSPECTS FOR PEACHES AND OTHER FRUIT IN WESTERN NEW YORK.

Jack Dimler asks for information on this subject. The ground here has been heavily covered with snow ever since Thanksgiving day, thus all small fruits have been well protected, although many of the bushes have doubtless been broken down with snowbanks. While the thermometer has been as low as 13 degrees below zero at Rochester and 30 or 40 degrees below zero at other points in Western New York, the buds of peaches and other fruits were considered to be in such fine condition at the time of the cold freeze that it is hoped that no injury has been done, even to peach trees, but very likely the prospects of many peach orchards are not encouraging. It is too early to give a further account at this date. Elberta peach buds are reported three-fourths alive. This is enough for a full crop.

WISMER'S APPLE.

Our attention was first called to this variety by the originator, who lives in Canada and who calls this apple Wismer's Dessert. It is recommended to us as being an apple of high quality. Professor L. H. Bailey, of Cornell university writes under January 5, 1904, as follows: "All I know about the Wismer apple is from a specimen or specimens that were sent to me for testing. The apples that I received were of very high quality and I liked the looks of them." Professor H. E. Van Deman reports as follows: "Wismer is a nice small to medium dessert apple of very good quality. It is covered with red stripes. It is not a highly colored or brilliantly colored apple, but is more brilliant than Hubbards-ton. Its season is winter. It would seem to be hardy from its origin so far north as Canada."

FRUIT TREES AND PLANTS FROM SEED.

Mrs. M. A. Lee asks Green's Fruit Grower how fruit trees can be produced from seed, also small fruits. Seeds of apple, peach, pear, plum and cherry, if planted at once before drying, will sprout and grow the following spring, producing seedlings. These seedlings can be allowed to grow, four, five or six feet high and can then be top grafted to any variety desired. Seeds of the strawberry, blackberry, currant, grape or other small fruits can be sown fresh as taken from the fruit before the seeds

dry and covered slightly with earth. The next summer, if the conditions are favorable, these seeds will sprout and grow, producing seedlings usually unlike the varieties from which they came. Most of the varieties will be inferior to the parent variety. Possibly one in a thousand may be superior. This is one way in which fruits are improved by testing seedlings, but it is not a profitable occupation.

If the Fruit Grower does not quit improving pretty soon you will be perched on the top rung of the journalistic ladder. —H. G.

Waste Room.—The parlors of most rural houses are simply waste room. Is it not strange that people will build houses at considerable expense and set aside one of the largest and best rooms as a waste room, a dark room, a room which the inmates dare not enter for fear of soiling or injuring something, a room in which no sunshine is admitted, a room which is seldom warm and comfortable on a winter's day. If I were building a house in the country I would have no waste room, no parlor kept starched and prim, dark and dreary. I would have every room in the house warm and comfortable and arranged so that the inmates of the house could enjoy the rooms thoroughly, and so that the cat or dog could come in and not be in danger of overturning something, or of getting a few hairs on the carpet. You who have starched and stuffy dark parlors transform them into living rooms and thus brighten your lives.

Starvation.—It has been predicted by wise men that the time was not far distant when the people of the earth would starve. The thought was that since the productiveness of the soil was decreasing, the limit of production would finally be reached, after which would come starvation. This fact is not unreasonable and yet no one for generations to come need have fears about not getting enough to eat if he is willing to work. The full capacity of the soil over a large portion of the earth's surface has never been attained. Better cultivation, the application of more fertilizers and improved varieties, may more than double the yield per acre of the various crops. But aside from this new territory is constantly being brought under cultivation. The extension of the Russian railroad into Manchuria, China, has opened up a vast territory of rich wheat producing land similar to the Red River lands of Dakota. On this continent it is claimed that 100,000,000 acres of good wheat land exist in northern Canada, and that these lands are rapidly being occupied as wheat farms.

Molasses for Cattle and Horses.—In sugar refineries it is often difficult to use all grades of the molasses, therefore it is disposed of at prices low enough to warrant its use for cattle food. We are told that cattle and horses learn to relish molasses and that it, in reasonable amounts, agrees with them and helps to make them healthful and strong.

Real Folks.—I like real folks. That is I like people who possess individuality and who are not ashamed of their individuality and peculiarities. We meet continually people who are not real folks. I mean by this people who seem artificial, who seem to be straining to appear like somebody else, who do not act natural, who do not let themselves out, who are trying to make an impression. The greatest men I have ever met have been the most simple in their manner, that is real folks with nothing to conceal, living, thinking and speaking like ordinary human beings.

Green's Idea.—I have repeatedly urged in Green's Fruit Grower that wealthy men, charitably disposed, should colonize the poor people of cities, making it possible for them to engage in farming and fruit growing on their own land. I am pleased to notice that recently an effort of this kind has been made by wealthy men in Chicago. Their plan is to take up many thousand acres of government land and offer enticing inducements to the poor people of Chicago to move onto these lands, and to make their home there, making it possible for them to do so even though they have no capital. A similar plan has recently been considered twenty miles out of London for the good of the poor of London. Truly the world is moving.

To Keep Mice Away.—I see an inquiry in "The Stockman and Farmer" of the 30th instant how to prevent mice from gnawing harness. If inquirer will thoroughly mix a little pine tar with the harness oil rats and mice will not touch them and it will in no way injure the leather.

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PROFESSOR H. E. VAN DEMAN,
Associate Editor of—
GREEN'S FRUIT GROWER.

HIS ANSWERS TO INQUIRIES.

Apple Orchard.—A reader in Oklahoma, J. W. P., of Enid, wants to know what to do with his 7 year old apple orchard that was set 16 feet apart and the trees have been trained low and are now "sweeping" the ground on the north side and filling the space between the rows. He cannot get through with a horse to cultivate them properly.

It was a mistake in setting the trees so close as 16 feet each way, but if they had been set one rod in the row, north and south, and two rods between the rows, east and west, they would have been none too close for a few years yet. If early bearing kinds, such as Missouri and Stayman had been used as fillers between more permanent kinds, such as Jonathan, Gano and York Imperial, the plan would have been still better. I am stating these points for the future use of J. W. P. and others who live on the Western prairies, where the sunshine is hot and the winds almost constantly from the S. W. in the growing season.

But what to do in this present case is the question now. I would cut back some of the very lowest and longest of the branches that interfere with the passage of team and cultivator. I would get a very wide spreading implement that would reach out under the branches to some extent and use it frequently from April to August, pulverizing the ground only 2 or 3 inches deep, but very often. When this became quite difficult to do and the trees had yielded some profit, I would grub out ever other row, running north and south, and after a few more years every other tree in the remaining rows. This will leave them 2x32 feet, which is about right for a bearing apple orchard in that region.

C. V. G., of Westboro, Mass., asks if it would be practicable to lay down and cover with earth during the winter, peach trees 5 years old. I have serious doubts of it. The roots would have to be cut from two opposite sides and those remaining would be wrenched in some degree in order to get the trees bent down to the ground and covered. As they have not been trained to this end neither above or below, it would be very hurtful to lay them down now. If the trees live through this winter and are baled up with straw or corn fodder next fall they may carry their buds safely through. This can be done and is done, by filling the interior of the tree with straw and after drawing the branches inward with ropes bind a layer of cord fodder on the outside.

1st I have on my place one large Flemish Beauty pear tree, large enough to carry ten bushels of fruit. It has stood in grassy ground until last spring, when I had it plowed and cultivated. I also thinned out some of the limbs after it had leaved out, and it bore about one bushel of nice fruit; and I think it needs more trimming this season; would you advise trimming before or after it leaves out?

2d. I bought 200 potted strawberry plants last September. I kept them well cultivated but the weather was so dry they made very little growth, and after rain did come it was too late to do much good. They were well fertilized and mulched with horse manure. Now will I have to rake back the mulch in the spring and cultivate the same as though they were just set out?—L. B. Marsh.

Reply:—1st. It is probable that the pear tree may need some pruning, but do not be too free with the saw and knife. More injury than good is sometimes done by pruning very severely. Thin out the branches that interfere with each other, and thus allow the light to permeate the tree and cause the proper development of the leaves and fruit. But do not cut off the small branches and spurs, making the main branches bare; for they serve useful purposes in tempering the influences of the hot sunshine and in elaborating the sap. The time to do the pruning is not essential, but just before blooming is a good time, and after the fruit is set is also very suitable for pruning.

2d. The mulch should be raked off the plants to some extent and left in the spaces between the rows; but the plants will do better for having a little of it left over them, they will push up their leaves and fruiting stems through a thin mulch. Care must be taken that the mulch that is now on them, if very thick, does not remain after there is any of the spring growth begun, or it will injure them.

A reader in New York city, C. K. H., wants to know whether or not seedling

peach trees are worth planting in an orchard on Long Island.

Reply:—That is very doubtful. There are very few seedling trees of any fruit that bear fruit of enough value, compared with the good varieties we now have, to warrant preserving, and seedling peach trees are no exception. One out of many thousands sometimes proves of superior excellence, and from these remarkable exceptions we have obtained our good varieties.

Editor Green's Fruit Grower:—Will you kindly give me any information you may have in regard to clarifying vinegar. Our vinegar is made from grapes and is now about a year old. It has been standing in a barrel since it was made and not moved, but it does not seem to get as clear as we think it ought to.—Harry Grey, Ala.

Reply:—A little gelatine dissolved and put in the vinegar will clear it. Sweet milk or the white of an egg will do the same thing. All that is necessary is to test the amount necessary for a barrel, which will not be but little in most cases, and then use the required amount in the other barrels. Straining through cloths or filtering in sand usually takes out all sediment.

Thomas P. Priestly of Tennessee asks advice about apple growing, varieties etc.

Reply:—Of summer and fall apples the four kinds that I would recommend for Tennessee, ripening in succession are, Early Harvest, Fanny, Jeffries, and Grimes. Of winter varieties for that state six good ones are: Stayman, Kinard, Black Ben Davis, Arkansas, York Imperial and Ingram.

One of the names of Arkansas is Mammoth Blacktwig, which is much like Paragon, but a larger and darker colored apple, but not so good in quality. For home use I like the latter best. Both are seedlings of Winesap but not so good as Stayman, which is of the same parentage.

Black Ben Davis is the best variety of the Ben Davis type, but is not high in quality. Commerce is not yet well tested but has some promise. Delicious is a red apple of high quality. Collins or Champion is a fine, showy red apple, but will not keep late when grown in Tennessee. Ingram is a late keeper, and is distinct from Glens. Missing Link is a very late keeper that is very nearly the same if not identical with Willow. It is of only fair quality. Stayman and Black Ben Davis would make good fillers in Tennessee. I would not use any peach trees as fillers, because they overgrow the apple trees and finally injure them. Of peaches four good kinds are: Belle of Georgia, Elberta, Mamie Ross and Salway. Dewy is a new peach that has been but little tested as yet.

Four good pears for general use are: Wilder, Howell, Bartlett and Kieffer.

Four good plums for Tennessee are: Abundance, Burbank, Stoddard and Wyant.

The two best cherries for that region are: Richmond and Montmorency.

About Plum Orchards.—For many years I have been a subscriber to Green's Fruit Grower, and have found it all O. K. to say the least. I feel as though I could hardly get along without it. I read and reread it for the good it contains and many valuable hints I have gotten out of it. I have five acres of plum trees of the Lombard and Abundance variety but for the last two or three years they have shed nearly all their leaves in July and August, and the plums would nearly all fall off ere they were ripe. This orchard has been neglected. I sprayed it three times last summer against the curculio. The spraying was done ten days apart, with lime, blue vitriol, water and paris green, excepting the last time I left out the paris green. I noticed that where I sprayed the heaviest the last time I had the most plums. I plowed my ground among the trees, which had not been done for a long time, I also trimmed the trees in good shape. I am hauling out a lot of stable manure to plow in this coming spring.—What more can be done to help the trees bear well?—J. J. Vanderree, Mich.

Reply:—It would seem that this orchard is now in good hands, whatever may have been its treatment before. If the cultivation and spraying is persistently followed there is every reason to believe that good crops of plums will be obtained. Early spraying, before the buds open in the spring, with very strong

Bordeaux mixture will kill most of the latent disease germs. Late spraying is also good. Visit that successful neighbor, ask his advice and try to do as he does and very likely you will do as well as he does in getting good crops.

Editor Green's Fruit Grower: Will Professor Van Deman kindly tell me how to handle winter pears, so that they will ripen when it is desired to use them, and yet come to the table in an unshrivelled condition? We have kept the Lawrence and the Anjou varieties, in an ordinary cellar, until the holidays, for several years; but they are usually a good deal shriveled by the time we wish to eat them. I have read that success follows packing winter pears in boxes, between layers of dry sand; but is there not some more simple and popular plan, adapted to keeping a greater number of pears? It is the shriveling that bothers us more than anything else; and how to avoid that difficulty is what I would like to learn.—George W. Smith.

If pears are wrapped singly in two or more folds of paper and then packed in boxes they will keep better than if not wrapped and will shrivel but little. If the paper next the fruit is of some soft kind, such as ordinary newspaper, it will absorb the moisture from any rot that may occur; and if the outer wrap is of paraffined or other quite closely made paper it will retain the moisture inside better than would that which is more porous. Packing in sand or other material of that character is very troublesome and quite unnecessary.

H. E. Sandeman.

Thoughtful Kindness.

Written for Green's Fruit Grower by G. Bancroft Griffith.

The earnestness of a little girl in offering her hot chestnuts one chilly autumnal evening on a street corner arrested the attention of a kind-hearted young man, and he gave her a shilling. She ran home with it to her sick mother. So small a gift made joy in the house. Years after a poor man called upon a rich bank director to ask for a position as messenger. The director's wife recognized him as he passed out as the donor of the shilling to her on that street corner, years before. She learned his business with her husband, and said, "Give him the situation." "Why," said he. "Because I ask it as a favor, and you have promised me never to deny me a favor." He promised it, and that night sent a note to the applicant notifying him of his appointment. His wife explained the reason for her request to her husband, and he replied, "That is right, my little wife; never forget one who was kind to you in the days when you needed help most." The clerk received the note as he sat beside his sick wife. Opening it, he exclaimed: "Good news, wife. We shall not starve. Here is a promise of a situation." His wife called his attention to something which fell out upon the floor. It was a fifty-pound note, folded in a paper bearing the inscription, "In grateful remembrance of the silver shilling which a kind stranger bestowed on a little chestnut-girl twenty years ago."

So we see that sometimes seed sown on apparently poor ground springs up and bears much fruit.

A thief once entered the house of Lydia H. Sigourney, the poet, at Hartford, Conn., and stole valuable things, among them special gifts from the crowned heads of Europe. The man was arrested, the stolen goods were recovered, and he was put in prison. He was a young man, and Mrs. Sigourney's heart was touched for him. She visited him in prison, procured his release, gave him money to take him out West, and he became an excellent and useful man, and an honor to his benefactor. Kindness sometimes works wonders. And the best way to cure many evils is to overcome them with good.

Generous acts are Christ-like, and even kind words are the brightest flowers of earth's existence; they make a very paradise of the humblest home that the world can show.

There are chords in the human heart, strange varying strings—which are only struck by accident; which will remain mute and senseless to appeals the most passionate and earnest, and respond at last to the slightest casual touch.—Dickens.

"There are many brave hearts asleep in the deep. Beware! Beware!"

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FROM POORHOUSE TO PROSPERITY

Remarkable Experience of a Subscriber of Green's Fruit Grower.

Editor Green's Fruit Grower: You ask what I would do if I were very poor, thus I will tell you what I have done. No one could have started poorer than I, since I was in my youth an inmate of the county poor house, having lost both father and mother suddenly by smallpox. When I was 12 years old I ran away from the poor house and all the property I had consisted of a pair of ragged overalls, a shirt and a dilapidated straw hat. I walked all that day without food. When darkness arrived I went into a barn and slept on the hay. Next morning I started again, stopping at a farm house and applied at the kitchen door for food, telling the lady that I would weed her onion bed for her if she would supply my needs. The woman replied "of course I will give you something to eat you poor little fellow." I cannot tell you how good the food tasted after my long fast. I worked all the forenoon weeding the lady's onions. Then the farmer came in from the field and questioned me closely, then asked me in to dinner. He wanted to know what I intended to do. I told him I wanted to get work on a farm. This farmer hired me at \$5 a month. I stayed with him until I was 25 years old, getting better wages as I was able to earn them. I was never away from the farm over night during my long stay. I put my savings into a building association. When I was 24 years old I drew out of that association \$3,000 and bought fifteen acres of land, paying \$1,000 down. On this land I built a small and comfortable house and stable, keeping house for myself, as I was unmarried. I grubbed out the bushes and drained the land. I drew manure from the city and made the land rich. At 25 years of age I married a young lady of poor but good family. We took no wedding journey. We have raised and educated a family of six children, three boys and three girls, and we owe no one a dollar. I have been offered \$8,000 cash for my home. I hold a mortgage of \$3,000 on the farm where I weeded the onions the day I left the poor house, and I have mortgages on other real estate in this locality, amounting in all to \$10,000. I never drank a drop of intoxicating liquors nor took a chew of tobacco or smoked. I never had a law suit. I never paid a dollar for doctor for myself. I am a subscriber to Green's Fruit Grower and have all of Green's books in my library. I first subscribed for Green's Fruit Grower twenty years ago. We have on our place orchards of apples, pears, peaches, cherries, plums also grape vines, black and red raspberries, all of which came from Rochester, N. Y.—A Pennsylvania Subscriber.

Green's reply to Geo. A. Tryon, Mo.: If you have not had experience in fruit growing and intend to make a business of fruit growing we would advise you to spend at least one season working for some one who has orchards and berry fields to look after similar to those you desire for yourself. It is the opinion of well informed fruit men that orcharding, particularly apple orcharding, will continue to be profitable for many years to come and that no one having good orchard land can make a mistake in planting orchards. Instead of apples and other fruit becoming cheaper they are becoming higher priced and in greater demand each season. The prospects for growing apples in Missouri I do not know so much about as I do about Western New York, but I know that large orchardists in Missouri are making money from their apple orchards. Trees growing in Rochester nurseries will succeed anywhere. There are no better trees grown in the world than Rochester trees. They will succeed even in India or China if they could be transported safely.

The reason why I begun to take Green's Fruit Grower was that picture of you in your old farm house, sitting before the fire and deciding that you would succeed where others had failed. It appealed to me and showed me that you were a man of grit and common sense and I therefore decided that your paper must be a good one. I have found Green's Fruit Grower all and more than I expected and the paper is valuable on account of everything in it being plain, sensible and easily understood. I look forward to its coming every month and read it with the greatest interest—Julien A. Hall, Va.

Edwin (before marriage)—Never mind, dear, I'll shovel off the snow so that we can skate. I'd shovel off acres for you! After marriage—"What! Me shovel that snow off the walk? Well, I should say not! I'm no chore boy."—Chicago Daily News.

Chewing gum is regularly supplied to inmates of insane asylums by the Minnesota state board of control.

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Woman's Page

CONTINUED.

HOW TO HELP THE WIFE.

Written for Green's Fruit Grower by Patrick Floyd.

I would like to occupy a little space in your paper with a few suggestions upon lightening the housewife's burdens. If more husbands would be more thoughtful they might find their home more cheerful and tidy; and furthermore save doctor's bills. The lot of the farmer's wife is most discouraging. More than three-fourths of the farmers are not aware how much harder their wife's duties are made by their ignorance. If more farmers knew the laws of etiquette, and would be civilly polite at home as they are away, one-half of the over loaded burdens would drop from their wife's shoulders. There is as much need for a farmer to be polite as our president, or any other noted person. How nice a woman would feel to see her husband as polite and neat around home as he is when he goes to church, or some political meeting. I have seen a good many men when away from home you would think they were the best of gentlemen, but to see them at home you would take them for brutes. It isn't how a man acts away from home that proves his character, but how he lives at home. You must go into the home-life to find the real character of a man. If there really is a man who wants to lighten his wife's burdens, let him practice these suggestions: See that your wife has a good cooking range, and that the wood is well fitted to go into it, and the wood-box never empty. Always have plenty of dry wood on hand. Build all the fires and never leave them for your wife to build. Always lug the wood in before your wife sweeps. Never let your wife tend to the dairy, nor feed your stock. Carry no dirty pails, nor pig-troughs into the house for cleaning. Mend your old horse blankets, and harnesses yourself, furthermore do not bring such dirty things into the house. Always clean your feet before you enter the house. Never take fowls into the house to pick, and never demand your wife to do so. Never warm any kind of swill on the kitchen stove, but have a place in the shed to warm it. Always see that the shed walks, and stable-floors are kept swept; and never let the womenfolk do this work. Hang your clothes upon a hook and never leave them on a chair for your wife to lay away. Never wear your barn clothes to the table, nor in the parlor. Hang out the clothes for your wife on washing-day, and also see that your wife or womenfolk don't lug the water to wash with. Never spit on the floor, and never throw anything on the floor. Get yourself ready for meeting and other places, don't make your wife help you get ready. Always move, and always move your chair with you when anyone is about to sweep where you are sitting. Never smoke in the house because it darkens and smuts the ceilings, and makes house-cleaning harder. Whenever you go to town always ask your wife if there is anything needed, and never grumble if there is. Brush your own clothes, and tie your own tie. Never be behind time at breakfast, dinner and supper, and after eating take your dishes and carry them to the wash-stand. If anything is on the floor and you see your wife about to pick it up, stoop yourself and pick it up as you did before marriage. Whenever about the house always be as useful as you can in waiting upon the womenfolk. If a button is gone off your clothes sew one on yourself. If more men would think how much easier they could lighten their wife's burdens by practicing these few suggestions, there would be many foot steps saved for better purposes, and less tired feeling felt by the house wife.

HELPFUL SUGGESTIONS.

Written for Green's Fruit Grower by Mrs. L. Jennings.

If a child by accident swallows a button or a coin do not leave the child and run for a doctor, nor give a cathartic, which is the worst thing you can do. If the coin is lodged in the throat run the finger down at once. Sometimes you may catch and throw it out of the mouth or cause the child to vomit and clear the throat itself. If it has passed the food pipe to the stomach do not give a cathartic and thus relax the stomach and bowels and cause the coin to fall against the walls. Rather, feed the child all the solid food you can get him to eat even if it is dried apples, to distend the bowels. Then in eighteen or twenty-four hours watch results, do not get nervous.

When putting up shades fasten fixtures to a strip of stained wood, then

with screws fasten them to the window casing. This will be found much better than adjusting fixtures to casing.

One reason why apples are not more generally relished when cooked is that most people expect apples to stand on their own merit. This they will do while in their prime, crisp and aromatic. When this stage is passed they need some addition to make them desirable. They then work well as foundation for other fruits. If one has saved grapes, pulped, cooked them, and put them through colander, then with the skins cooked them to marmalade, this or other acid fruit in jam or jellies added to apples while cooking, sweetened to taste, makes a fine dish. Evaporated apples need such addition when prepared for pies or sauce.

For next summer fly brushes save old shade curtains, tear in strips leaving a margin to wind round a convenient flexible handle. Fasten on securely with paste and brads.

The comfort that may be taken in single beds is not generally known. Many sleeping rooms are large enough for two such beds if required. When a person is restless it gives satisfaction to feel that you are not disturbing a bedfellow. They may not look as well but are much easier made up than twin beds. When one becomes accustomed to using a single bed he does not readily wish to make a change.

Marriage.—In the present state of human development, it is surely enough to promise love and consideration in the marriage relations, and if there is love and consideration on both sides, there would never be, of course, any question of obedience between husband and wife. This Mr. Shearman admits, for he says: "The love which rules in every true marriage brings the two into happy concord. The affectionate and manly husband does not lord it over his wife." It seems to us quite time that the church should eliminate from its sacred ceremonies words that mean nothing. Many of the best church people in Massachusetts smile over that promise to "obey." Nine times out of ten the woman does not say it at all. And when she does, she does not mean it. In the old days before woman had been given educational privileges, and when custom kept her closely in the home, dependent upon the exertions of father, brother or husband, there was some significance to the word "obey" as applied to her. Now there is none whatever, for—to-day.

"The woman's cause is man's; they rise or sink Together, dwarfed or godlike, bond or free."

In true union they are each free as they are one; neither, as the legend of Eden would have it, is inferior, and therefore owes obedience to the other.

Male "housemaids" are the most recent contribution to the solving of the servant problem in Great Britain, it seems. Several thousands of foreign young men have recently been transported to London to engage in general domestic work in British households. So far nothing but commendation is heard on the subject. These men servants, say their employers, do the work that has generally been allotted to women in a cleaner, quicker and more thorough fashion than the sex they have displaced. They waste less time, have no grievances, no "visitors," ask no higher wages, and do not bother about "evenings out." Altogether, if the future carries out the prophecy of the present it will not be long before the reign of women workers in the "essentially womanly field of house-wifery" will be quite eclipsed by the masculine superiority therein shown.

Celery Sauce for Game.—Take a large bunch of celery and wash it thoroughly. Cut it in small pieces, using only the white part, and boil it slowly until tender in a little water. Add a tablespoonful of butter, one pinch of grated nutmeg, one of pepper and one of powdered mace. Thicken with a tablespoonful of sifted flour, moistened with cold water. Then pour in a cupful of cream and a wineglass of either sherry or white wine. Let the whole simmer for two minutes and serve.

Peppermints.—Boil hard for five minutes four cupfuls of white sugar, one cupful of hot water, twelve drops of oil of peppermint, fifteen drops of wintergreen. Pour into a bowl and stir briskly until the mixture begins to thicken. Then drop on a cold tin dish as fast as possible. A small teaspoonful of the candy dropped on the dish will make a lozenge as large as a half dollar. Do not place the lozenges so close together that they will run into each other, or they will not be good shape.

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I was deaf from infancy. Eminent doctors, surgeons and ear specialists treated me at great expense and yet did me no good. I tried all the artificial appliances that claimed to restore hearing, but they failed to benefit me in the least. I even went to the best specialists in the world, but their efforts were unavailing.

My case was pronounced incurable! I grew desperate; my deafness tormented me. Daily I was becoming more of a recluse, avoiding the companionship of people because of the annoyance my deafness and sensitiveness caused me. Finally I began to experiment on myself, and after patient years of study, labor, and personal expense, I perfected something that I found took the place of the natural ear drums, and I called it Wilson's Common Sense Ear Drums, which I now wear day and night with perfect comfort, and do not even have to remove them when washing. No one can tell I am wearing them, as they do not show, and as they give no discomfort whatever, I scarcely know it myself.

With these drums I can now hear a whisper. I join in the general conversation and hear everything going on around me. I can hear a sermon or lecture from any part of a large church or hall. My general health is improved because of the great change my Ear Drums have made in my life. My spirits are bright and cheerful. I am a cured, changed man.

Since my fortunate discovery it is no longer necessary for any deaf person to carry a trumpet, a tube, or any other such old-fashioned makeshift. My Common Sense Ear Drum is built on the strictest scientific principles, contains no metal, wires, or strings of any kind, and is new and up to date in all respects. It is so small that no one can see it when in position, yet it collects all the sound waves and focuses them against the drum head, causing you to hear naturally and perfectly. It will do this even when the natural ear drums are partially or entirely destroyed, perforated, scarred, relaxed or thickened. It fits any ear from childhood to old age, male or female, and aside from the fact that it does not show, it never causes irritation, and can be used with comfort day and night without removal for any cause.

With my device I can cure deafness in any person, no matter how acquired, whether from catarrh, scarlet fever, typhoid or brain fever, measles, whooping cough, gatherings in the ear, shocks from artillery, or through accidents. My invention not only cures, but at once stops the progress of deafness and all roaring and buzzing noises. The greatest aural surgeons in the world recommend it, as well as physicians of all schools. It will do for you what no medicine or medical skill on earth can do.

I want to place my 190-page book on deafness in the hands of every deaf person in the world. I will gladly send it free to any one whose name and address I can get. It describes and illustrates Wilson's Common Sense Ear Drums and contains bona fide letters from numerous users in the United States, Canada, Mexico, England, Scotland, Ireland, Wales, Australia, New Zealand, Tasmania, India, and the remotest islands. I have letters from people in every station of life—ministers, physicians, lawyers, merchants, society ladies, etc.—and tell the truth about the benefits to be derived from my wonderful little device. You will find the names of people in your own town and state, many whose names you know, and I am sure that all this will convince you that the cure of deafness has at last been solved by my invention.

Don't delay; write for the free book today and address my firm—The Wilson Ear Drum Co., 1506 Todd Building, Louisville, Ky., U. S. A.

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Editorial Comment.

Roadside Fruit Trees.—Few things please me more than to see rows of apple trees bearing fruit along highways. Many apple trees are thus planted in Western New York and I know of no way of beautifying the roadsides more successfully. The apple tree is an object of beauty and promise at all seasons of the year. No one can look upon an apple tree even during winter without thinking of the abundance of healthful and beautiful fruit it will bear. As the tree opens its leaves and expands its millions of flowers, or as it is filled with various colored fruits as autumn approaches, it is an object of interest and admiration. There is but little danger of the fruit of these roadside trees being seriously molested. If the varieties are summer fruits more of them would be taken by passers-by than if they were winter fruits. But in either case good crops can be gathered from these roadside trees, thus they are doing double service, one as ornamental trees and the other as mortgage lifters. The soil along the fence line by the roadside has not been cropped, and is therefore more fertile than the soil of the fields adjoining.

Luther Burbank has sold his new Miracle seedling plum for \$2,500 to an Oregon firm. He has received as high as \$10,000 for a single new fruit. If he secures one valuable seedling from ten or twenty thousand seedlings he considers himself fortunate. He is a veritable wizard of horticulture.

Low Headed Apple Trees.—Green's Fruit Grower proposes to continue talking about low headed fruit trees of all kinds, and particularly about low-headed apple trees. The day is passed when intelligent fruit growers can be found training their apple trees so high that it requires a balloon to get high enough to gather the fruit. Think for a moment of the difference between gathering the fruit of the tree whose branches almost rest upon the earth, and the gathering of fruit where the first branches are from ten to twenty feet high and the top branches thirty to forty feet high. Nearly double the amount of apples can be picked by one man in a day from the low headed trees than can be picked from the high headed trees. Then consider the danger in picking from those very high trees, and the time spent in going up and down the ladders and in moving tall, heavy ladders around. The ordinary planter used to head his apple trees at about five feet from the ground at planting. In future years he kept cutting away the lower branches constantly raising the head of the tree. My advice is to start the heads of apple trees not higher than four feet from the ground, and keeping the head low.

George Wellman of Ohio writes that Green's Fruit Grower is one of the two best papers of the many he subscribes for. He likes Van Deman papers, Reynolds's experience, the Skeleton papers, the health department and the editorial pages particularly.

Berry Boxes.—Order your berry boxes, berry crates, peach and grape baskets now. If you wait until May or June you cannot get them quick enough. This is very important. In the rush of the season factories cannot supply the demand promptly.

The Robin.—I am a great lover of birds. I encourage them to nest and sing about my home, not complaining if they occasionally take a few cherries or strawberries. But we hear from other fruit growers that the robin is a common thief. Possibly these complaining men do not consider the good that the birds do. Even you and I, reader, do some harm in this world beyond a doubt; it could not be otherwise, but this is no reason why we should be shot ruthlessly and swept off the face of the earth. We also do some good. Our enemies should weigh up the good we do as compared with whatever evil may result from the mistakes we make, and judge us according to the balance of good or evil. I firmly believe that the robin and other birds as a class, do more good by far than injury to fruit growers, and to the world at large.

Planting Seeds of Fruits.—Isaac Blackstone asks Green's Fruit Grower whether the seed of a valuable prune growing on his place, if planted will produce the same variety as the tree from which it came. My reply is that the chances are not one in a thousand, or one in ten thousand that the seed would produce the same prune as the tree from which it came. The German prune is inclined to reproduce itself. York State prune is a seedling of German prune but it is much larger than the German prune and

differs from it in many respects. Since the seed of wheat, rye, and oats reproduce themselves from seed many people do not see why the seeds of apples, pears, plums and cherries should not reproduce themselves. But they will not in most instances. Some varieties of fruits more often reproduce themselves from seeds than others.

Aug. Roberge writes Green's Fruit Grower that he has a high opinion of our magazine and appreciates all of the departments, but particularly the health department. A neighbor was sick with fever and he could not eat ordinary food. He induced the patient's mother to put aside the doctor's prescription and put him on a fruit diet. For two weeks the patient lived exclusively upon fruits. At the end of that time the symptoms of the disease had disappeared and the patient rapidly recovered.

Editor's Note. I believe in following the directions of physicians, particularly in cases of fevers. For sick people the juices of lemons and oranges are the safest fruit juices to take. Next a well ripened apple, eaten slowly and chewed very fine, will be most healthful. But if the patient is very sick I should follow the doctor's directions about eating even an apple.

Green's Fruit Grower is the best monthly journal of its class that I have seen and I have read a large number of papers of this class. I am interested in all the departments, therefore it is difficult for me to specify which department I like best. Whether it is a story, an adventure or advice about fruit growing I want actual experience. Your subscribers can aid you in making your paper interesting by telling about their home contrivances and conveniences, and how to facilitate the work of the kitchen, barn, shop, garden and the farm at large. —I. Wright.

FARMERS LACK ENTERPRISE.

George S. Rowell writes Green's Fruit Grower as follows: Farmers throughout the country seem to have no enterprise. They will not plant a tree or vine nor will they grow strawberries and raspberries in their gardens. Although I live in a rich and popular farming country I am surrounded by farms that have not a grape vine or strawberry plant, currant bush, raspberry, blackberry growing, nor any peach, pear, plum, quince or apricot. Some of these farms have a few old scraggy apple trees producing inferior varieties and that is all. These people do not seem to be conscious of the fact that they are depriving themselves of the greatest luxuries of rural life. No wonder that the sons and daughters of these farmers are leaving farms for the city. Farm life cannot be attractive to them since they cannot have on their tables but little more than the plainest fare from one year's end to the other. Think of the delight that young people take in a large bed of luscious strawberries, or in a row of grapes that would yield its ripened clusters every October, or a few rows of raspberries or currant bushes. Were it not that I am now seventy-five years old I would buy a neighboring farm and cover it with all kinds of fruit trees. In 1873 I raised at

my home, forty miles north of Boston, 200 bushels of peaches and two tons of grapes in one season. That was a long time before fruits were grown so largely as they are at present.

ALL NOT BORN EQUAL.

Editor Green's Fruit Grower: I cannot believe that all are born equal. Each individual is born with talents particularly his own. While I have been successful I have not made so much money as I might have made had I been made of different stuff. I never could speculate at the expense of my neighbor or friend. In this way I have allowed many opportunities to make money slip by, yet I know there would be nothing wrong in making the most of my judgment. I am leaving my neighbor to do the same. Or in allowing my own people to pay their own debts and get out of their own troubles as best they can. But I never could allow strangers to suffer loss at the expense of any of my own people. This weakness has cost me thousands of dollars and has almost destroyed me mentally. I could not help it, such was my nature. I do not claim this to be a virtue on my part, on the contrary I claim this a weakness of which I am a victim, as are my wife and children. I began earning money when six years old, and served my country as a private soldier three years, during the Civil war. My motto is build up and never pull down. Progress is my watchword.—Subscriber, Baraboo, Wis.

He Likes It.—I like Green's Fruit Grower, and have taken it for many years. Being a fruit grower I am particularly interested in Professor Van Deman's replies to inquiries. I care nothing for stories and do not read them. I read everything else, the advertisements and all. I am a pioneer farmer living in the backwoods of Maryland. I am making an honest living here and at the same time preparing for a future home where there are no sorrows or tears, where all is peace, joy and comfort. Man's stay on earth is short; eternity is forever. It is just five years to-day since I began work in this thick wooded district. Now I have nearly all the fruit my family can use and I expect to plant more each year. Your premium knife is a good one. —L. G. Ford.

One poultry man has hinged storm windows. They are daily thrown open, inside windows raised and frames covered with coarse white muslin slipped under raised window, through which cloth comes much fresh air and ventilation without draft. If hen houses are aired by open door, two hours at noon, every sunny day when temperature is ten degrees above, conditions would be more tolerable for many farm hens.—Maine Farmer.

"Yes," said Archimedes, "my lever is a great contrivance, I could lift the earth with it if I could find a place to set my fulcrum."

"That's nothing," the modern mechanical genius remarked. "If I had belting enough I could run all the machinery of the world with Santo Domingo's revolutions."—Brooklyn Eagle.

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Has the indorsement of the highest medical authority in the world. It would seem strange indeed if persons afflicted with cancers and tumors, after knowing the facts, would resort to the dreaded knife and burning plaster, which have hitherto been attended with such fatal results. The fact that in the last ten years over one hundred doctors have put themselves under this mild treatment shows their confidence in the new method of treating those horrible diseases. Persons afflicted will do well to send for free book giving particulars and prices of Oils. Address the home office, Dr. D. M. Bye Co., Drawer 505, Indianapolis, Ind.

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If suffering from rheumatism, no matter how long standing, or how many specialists have failed on your case, write us a plain, honest letter telling your symptoms, and we will prepare a special treatment for your individual case and send it to you by mail, post paid, free of all cost. An honest, generous offer to suffering humanity. Write to-day to the Jobb Manufacturing Co., Ltd., 15 Kingman Bldg., Battle Creek, Mich.

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"I work in the office and don't get as much exercise as I should, and when I feel bad I just take a Cascarets which always makes me feel alright."
—J. E. Rohan, Q. & C. Route, Crescent, Ky.

"I had a torpid liver for months. I bought a box of Cascarets in Washington and have not only been put in perfect health, but have gained considerable in weight."
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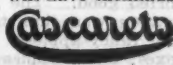
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Write to Mr. A. L. Rice, Manufacturer, 390 North St., Adams, N. Y., and he will send you a free trial package, also color card and full information showing you how you can save a good many dollars. Write to-day.

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Please mention Green's Fruit Grower.

Recent Meeting of the Western New York Horticultural Society.

Reported for Green's Fruit Grower.

The annual meeting of this useful society occurred January 27th and 28th at Rochester, N. Y. The sessions were largely attended by a very intelligent class of fruit growers. If the meeting could be criticised in any way it might be that it was too commercial, too practical, too sordid, without enough sentiment. There did not seem to be a particle of sentiment. In old times these meetings were largely attended by nurserymen and others who had considerable sentiment in their make up and expressed this in their speeches, essays and discussions. Now the almighty dollar alone is in evidence. The members do not seem to care about anything but the discussion of the few popular varieties of apples of lesser quality, how to grow the largest amounts, how to sell at the highest prices, the best packages, and how to destroy insects and fungus enemies. Members do not seem to be much interested in rare apples, or other fruits, or in fruits of superior beauty or quality since their aim is to grow those common varieties oftener than those of superior quality, which for the moment command good prices in the market. The essayists and lecturers are principally professional men from experiment stations who talk of insect enemies, of fungus diseases, and the best way of combatting them, without a thought of sentiment. I could almost suggest with propriety in the midst of these practical meetings, a sermon on the man the Bible tells about, who felt the need of building larger storehouses in which to pile his wealth, and of the question asked by our Saviour, "What shall it profit a man if he gain the whole world and lose his soul?" interpreting the world soul in this instance to mean sentiment, poetry or the desire for a love of the beautiful things of life that lift us up and ennoble us, yet may not be eminently practical or productive of dollars and cents.

Professor Craig, of Cornell university, is an excellent man to help keep things moving at a meeting like this. He is a practical man and a good, plain, easy speaker. He occupied some time in explaining comparative experiments with the liquid sprays and dust sprays. Spraying orchards with dust has not been so largely practiced in the east as in the west. They use dust sprays for the some purpose that we use liquid sprays. The machinery that throws the dust into the apple trees is called a gun. It is worked by hand. A strong current of air is forced into the dust spray which is thus carried into the foliage of large trees. The work is begun at three o'clock in the morning and continued until about seven, or until the leaves become so dry that the dust will no longer cling to the foliage. Professor Craig found results from the dust spray slightly more effective than with the liquid spray. He made careful tests, counting the different grades of apples produced by the different sprays. It costs about twenty-two cents per tree to spray with dust, about the same as it costs to spray with liquids.

Injury by the Winter.—Many members express the belief that the buds of the various fruits in Western New York were not seriously injured by the present severe winter since conditions were favorable for the safety of the buds. It is not thought that even peach buds were seriously injured but some of them are, no doubt, injured. Professor Craig desires that twigs of Elberta and Early Crawford be sent him from various sections so he can learn something of their conditions in different parts of this

BUSHEL BOXES OR BARRELS,

WHICH?

Much interest is shown in the question of packages for apples, the majority being in favor of the old apple barrel which, however, could not be furnished to them in sufficient quantities the past season owing to the scarcity of barrel timber and the great demand for the barrels. Many were compelled to make boxes, many stored apples in bulk and made bushel boxes later in which they packed the apples and in which they were sent to market with good success. This year boxes could be prepared cheaper than barrels could be bought. Mr. Powell used 1,000 bushel boxes for his R. I. Greenings, Seek-no-Further and Lady Winter Sweets; part of them were forty pound boxes and part bushel boxes. It was stated that the apple consumers of New York city buy apples in two, three and four quart lots only, therefore grocers there rather favor barrels at present, and yet they handle fancy apples from Oregon in car load lots, coming in boxes, selling these apples at six for 25 cents, and the demand was reported good. The general opinion of members was that the box was the thing for fancy apples. Apples ship well in boxes; fancy apples should

be wrapped in paper before being placed in boxes. A member sold fancy apples in boxes by which method they yielded him at the rate of \$7.00 per barrel. A member near Buffalo sells his Baldwins and Greenings in Buffalo at \$1.00 per bushel box and the box is returned to him, which is quite a saving. It is certainly a serious expense where the orchardist loses the apple barrel, which costs him often forty or fifty cents each. The number two apples are sold to hucksters who peddle them out on the street. Professor H. E. Van Deman spoke in favor of boxes for apples. Oregon growers ship their apples in boxes. Those going into New Orleans and Vicksburg are all in bushel boxes. Orchardists can make their own boxes during winter for the coming season.

Colorado is not considered an apple growing state and yet Colorado shipped 667,000 boxes of apples into California last year. The size of the boxes adopted in Canada is 20 by 10 by 11 inches. The number of apples is marked on each box.

Peach men claim that the Georgia carrier is the best for shipping peaches. Prof. Bailey said that many of the hilly farms in western New York should be planted to apple orchards. New York state takes the lead as an apple growing state but we are not progressing as fast in the way of planting new orchards as are many of the numerous other states which are planting apple orchards rapidly. It was his opinion that western New York was still a very desirable locality for apple orchards. He wondered why there was not more enthusiasm in orchard planting here, or why there should be more enthusiasm in other states where fruit growing had not been so well tested as here.

Question. When apples in barrels in the orchards are overtaken with freezing weather and become frozen what should be done with them? Mr. Hooker replied, cover them heavily with corn stalks and leave them there until spring.

Elberta peach buds were reported by a member to be three-fourths alive where the thermometer has been seventeen degrees below zero. He said he can grow Elberta at 50 cents per bushel and make as much money as he could by selling Crawfords at \$1.00 per bushel.

Pear Psylla.—This insect is doing much damage to pear orchards in western New York; there are localities where it has not done any injury. Mr. Wood told his experience saying that it must be fought all the season beginning with the spray just before the pear trees blossom, which is the time when the young insects hatch and when they could be easily destroyed, then keeping up the spraying throughout the season if the insects were not previously destroyed. He used the Anchor brand of whaleoil soap, and the first spray consists of one pound of this soap to six gallons of water. If it does not kill the insects he goes over it again with a stronger spray, one to four of water, ending with a spray of one to seven. This spray of one to seven he uses also for aphids.

Aphis, or plant lice did great injury to apple orchards, also to apple, cherry and plum trees in nurseries last year. The condition of the weather was such as to encourage the growth of these plant lice. It is thought these aphids may never be so numerous again.

Export demand for apples and pears was never better than during the past year and at present, owing to the short crops in Europe and the increasing demand for our superior fruits. Arsenate of soda in place of paris green was recommended by Professor Swingerian.

Apples in barrels will stand some frost without injury. In cold storage houses the temperature is often kept below freezing, thus frost is found on the inside of the barrel, but the fruit is not injured.

COLD STORAGE HOUSES.

Western New York is the home of many of the largest cold storage houses in the country. It is not thought best to build cold storage houses of less capacity than 10,000 barrels since it will occupy one man's time to attend to the cold storage house and he can attend to 10,000 barrels as easily as 1,000 barrels. It costs about \$1,000 for 1,000 barrel capacity for building a cold storage house, therefore the building of the capacity of 10,000 barrels will cost \$10,000.

Question. Can good crops of apples be grown on sandy soil? Yes, if the soil possesses fertility enough to grow a fair crop of corn. Members have seen some of the best apples growing on sandy soil. Mr. Tenney would prefer a gravelly soil to a sandy soil for apples. Mr. Wood would plant on sandy soil with Duchess, Wealthy, Baldwin and Twenty Ounce. He plants Baldwin widely apart since they grow large. Other varieties such as Duchess, Yellow Transparent, Bismarck, Wealthy and Twenty Ounce he plants closer together. Often he uses the slow growing varieties as fillers, planting one of them between each Baldwin.

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Since I used the Drafts I walk without crutches. They do just what you claim. ANNE LEE GUNN, Augusta, Ark. I am much pleased with your cheap and simple remedy. I have found it to be just as you promised.

J. H. DIRKMAN, Danube, Minn. I never found anything that would help me before trying your Drafts. JOHN WHITE, Grafton, Mich. I have suffered from rheumatism for the past ten years but Magic Foot Drafts have entirely cured me. I have felt no pain since using them.

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SEND US 25c. to cover cost of packing and postage. Receive this grand "GIFT" collection of beautiful flowers. Our new catalogue, containing the most liberal offers ever made, and a CASH CHECK for 25c., giving you your money back.
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All the above flowers, each check and the best catalogue in the United States for the cost of packing and postage, 25c. only.
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H. Chasman, Ill.

He finds this much better than planting peach trees as fillers in apple orchards. Professor Van Deman and others counsel against planting peach trees in apple orchards. Peach trees are great feeders, they grow rapidly and tend to stunt the growth of the apple trees. Peach trees require different culture from apple trees, thus peaches should be planted in orchards by themselves and apple trees in orchards devoted only to apples for choice results.

Bismarck apple seemed to attract considerable attention and many wanted to know about it. Professor Van Deman said it was of large size, red and he had seen trees of Bismarck loaded down with fruit. It will keep well and bears at an early age, that is soon after planting. It is not of the best quality, but far better than Ben Davis; about with Baldwin for quality.

Question. Having a large barn cellar can I keep apples therein by filling the corners of the cellar with ice? Answer. Yes, you can keep apples in barrels in such a cellar until June by having plenty of ice.

Professor Van Deman recommended 500 pounds of Carolina rock per acre to fertilize orchards, but he said it was useless to supply commercial fertilizers in the absence of humus in the soils. You must keep up the supply of humus by plowing under Canada peas, cowpeas, rye, buckwheat, or some other crop that furnishes humus.

Question. What is the cause of rusty pears? Reply. Undrained soil or too much vitriol has been used in the spray.

Question. Is it practical to prepare holes for planting trees by using dynamite in each hole? Reply. Yes, where the sub-soil is hard it may be broken up by an explosion of dynamite, enabling the roots of trees to pass into a better soil. An orchard near Rochester was in such rocky land holes in the rock had to be blasted before each tree could be planted. This orchard proved a profitable one and very productive.

A ray of sunshine and sentiment was introduced when the George Ellwanger prizes were awarded for the best, most interesting and properly maintained collection of large and small fruits to Willard Hopkins and Son, \$40.00; second prize to M. N. Cook, \$20.00.

Another effort of a similar nature was made by a local landscape gardener who had made designs for beautifying country homes and had spread them upon the walls. The essayist, an aged man with white hair and beard, began to read his speech after the final resolutions had been offered, and after the last question of the question box had been answered. The moment he began his essay half of the audience arose, grasping their hats, overcoats and umbrellas and made a dive for the door. A number of those who remained engaged in loud conversation among themselves, much to the embarrassment of the reader. Here was another evidence that the average member of the Western New York Horticultural Society of the present day is hardened in his rush after the almighty dollar, that he cares but little for sentiment and is not interested in affairs that tend to brighten rural homes and make life really worth living.

For the New Year.

Green's Fruit Grower for 1904 will be better than ever. It is conceded that Green's Fruit Grower is the most popular horticultural paper in this country, and that it has a larger circulation than any paper of its class ever published throughout the history of the world. Luther Burbank says that it is the best horticultural family journal. Our editor has for nearly twenty-five years been studying the question how should a horticultural paper be edited. What class of material should it contain? What do its readers desire, what will do them the most good? Each year he has learned something on these subjects. He feels that he is better prepared the coming year to do better service than ever before. He is constantly calling to his aid new people, new men to conduct various departments. He has recently completed arrangements with Mr. A. F. Hunter to edit and take charge of the poultry department. Mr. Hunter is well known throughout the country as an experienced poultry keeper, and as an experienced writer on poultry affairs. It is confidently expected that he will make our poultry department exceedingly helpful. We have reason to thank our numerous subscribers for the encouragement they have given us in years past. Many of them have been with us from the start. Others have been with us for ten, twelve or fifteen years. Perhaps we have never received so many new subscribers as during the past few months.

We become heavenly minded by living to make others happy. If it is the aim and work of your life to be a blessing to others, you are living already the heavenly life.—E. H. Sears.

We Offer \$1,000 For a Disease Germ That Liquozone Can't Kill.

On every bottle of Liquozone we publish an offer of \$1,000 for a disease germ that it cannot kill. We do that to convince you that Liquozone does as we claim.

Please note what that means. Any drug that kills germs is a poison, and it cannot be taken internally. Medicine is, therefore, almost helpless in any germ disease. Liquozone alone can kill germs in the body without killing the tissues, too.

Acts Like Oxygen.

Liquozone is the result of a process which, for more than 20 years, has been the constant subject of scientific and chemical research. Its virtues are derived solely from gas, made in large part from the best oxygen producers. By a process requiring immense apparatus and 14 days' time, these gases are made part of the liquid product.

The result is a product that does what oxygen does. Oxygen gas, as you know, is the very source of vitality, the most essential element of life. Liquozone is a vitalizing tonic with which no other known product can compare. But germs are vegetables; and Liquozone, which—like oxygen—is life to an animal, is deadly to vegetable matter.

We Paid \$100,000

for the American rights to Liquozone—the highest price ever paid for similar rights on any scientific discovery. We did this

after testing the product for two years, through physicians and hospitals, in this country and others.

That price was paid because Liquozone does what all the skill in the world cannot do without it. It does in germ diseases that which is impossible with drugs. It carries into the blood a harmless yet powerful germicide, to destroy at once and forever the cause of any germ disease. And no man knows another way to do it.

Liquozone is new in America, and millions who need it don't know of it. For that reason we are spending \$500,000 to give the first bottle free to each of a million sick ones.

Germ Diseases.

These are the known germ diseases. All that medicine can do for these troubles is to help Nature overcome the germs, and such results are indirect and uncertain. Liquozone kills the germs, wherever they are, and the results are inevitable. By destroying the cause of the trouble, it invariably ends the disease, and forever.

Asthma
Abscess—Anemia
Bronchitis
Blood Poison
Bright's Disease
Bowel Troubles
Coughs—Colds
Consumption
Colic—Croup
Constipation
Catarrh—Cancer
Dysentery—Diarrhea
Dandruff—Dropsy

Hay Fever—Influenza
Kidney Diseases
La Grippe
Liver Troubles
Malaria—Neuralgia
Many Heart Troubles
Piles—Pneumonia
Pleurisy—Quinsy
Rheumatism
Skin Diseases
Scrofula
Stomach Troubles
Throat Troubles

Dyspepsia
Eczema—Erysipelas
Fever—Gall Stones
Goitre—Gout

Tuberculosis
Tumors—Ulcers
Women's Diseases

All diseases that begin with fever—all inflammation—all catarrh—all contagious diseases—all the results of impure or poisonous blood.

In nervous debility Liquozone acts as a vitaliser, accomplishing what no drugs can do.

50c. Bottle Free.

If you need Liquozone, and have never tried it, please send us this coupon. We will then mail you an order on your local druggist for a full-size bottle, and we will pay your druggist ourselves for it. This is our free gift, made to convince you; to show you what Liquozone is, and what it can do. In justice to yourself, please accept it to-day, for it places you under no obligation whatever.

Liquozone costs 50c. and \$1.

CUT OUT THIS COUPON

for this offer may not appear again. Fill out the blanks and mail it to the Liquid Ozone Co., 458-460 Wabash Ave., Chicago.

My disease is.....
I have never tried Liquozone but if you will supply me a 50c. bottle free I will take it.

M102 Give full address—write plainly.

Any physician or hospital not yet using Liquozone will be gladly supplied for a test.

Jos. Harris & Co.'s Garden and Field Seeds.

This is the season when farmers and fruit growers are sending to the seed house for garden and field seeds. There is a seed house located near the suburbs of Rochester which is well known to us and doubtless well known to most of our readers. I refer to the seed house of Joseph Harris Co., Coldwater, N. Y. Joseph Harris was a particular friend of ours in years gone by. He was a man of national renown as a writer on agricultural and horticultural topics. He was also a kind and sympathetic neighbor, ever willing to serve others and to give them encouraging words. I am familiar with the farm upon which the Joseph Harris seeds are grown, it is fertile land under a high state of cultivation, well adapted to seed growing. Here is located one of the finest and most productive apple orchards in existence. From this orchard a barrel of apples was once sent to Queen Victoria and was said to be the finest barrel of apples that had ever been imported.

Rust Proof.—It is said that if new tin-ware be rubbed with lard and thoroughly heated in the oven before being used it will prevent it from rusting.

To make round steak tender, instead of pounding the steak in the usual manner, which bruises the fibre and lets the juice escape, soak it for an hour or so in olive oil before cooking. Cook quickly over a brisk fire, so that both sides will be well browned (not burned,) then move the pan back, so that the inside meat may cook more slowly. Melt a lump of butter in two or three tablespoonfuls of good vinegar and pour over the steak, while hot. Lemon juice with a little water added may be used instead of vinegar. Season with pepper, salt, chopped onion and sage.—January Woman's Home Companion.

We send Dakota seed to Russia, from which she raises wheat to compete with our own product in the markets of the world. To plant, cultivate, reap and harvest her own crops we send to Russia nearly one-half our total exports of agricultural machinery. This year we have already shipped some eighty thousand tons of these implements to the land of the Czar.

Sycamore is an exceedingly durable wood, and a statue from it, now in the museum of Gizeh, is reported sound and natural in appearance, although nearly six thousand years old.

OUR CLUBBING OFFER WITH THE NEW YORK TRIBUNE FARMER.

NOTICE that 50 cents pays for the Tribune Farmer Weekly and Green's Fruit Grower for one year. This is a proposition that should not be overlooked by our readers. Remember that our offer is to send you the Tribune Farmer Weekly for 1 year and Green's Fruit Grower for 1 year, all for 50 cents.

Who does the best his circumstances allows Does well, acts nobly; angels could no better.

—Young

"Not as I will"—the sound grows sweet Each time my lips repeat.
"Not as I will"—the darkness feels More safe than light when his thought steals,
Like whispered voice, to calm and bide All unrest and loneliness.
"Not as I will"—because the One Who loved us first and best has gone Before us on the road, and still For us must all His love fulfill—
"Not as we will."

—Helen Hunt Jackson.

The quality of mercy is not strain'd, It droppeth as the gentle rain from heaven Upon the place beneath; it is twice blest; It blesseth him that gives and him that takes.

—Merchant of Venice.

Why comes temptation, but for man to meet And master, and make crouch beneath his feet, And so be pedestalled in triumph?

—Browning.

The memory may be cultivated to an extraordinary degree, as all are aware. Seneca, the Roman rhetorician, was able to repeat 2,000 words on once hearing them, each in its order, though they had no dependence or connection on each other. Pontius Latro retained in his memory all the orations he had ever spoken, without failing in even a single word. Cyneas, Ambassador to the Romans from King Pyrrhus, in one day so well learned the names of his audience that the next morning he saluted the whole Senate and all the populace assembled each by his name. Cyrus knew every soldier in his army by name. Herr von Nieublin, a celebrated German scholar, was once clerk in a bank in Copenhagen, in which capacity he gave proof of miraculous memory by restoring from recollection alone the entire contents of a leaf in the bank ledger which had been lost by fraud or accident.

For chapped hands, heat one ounce of cocoa butter and one ounce of sweet almond oil in a double boiler. Stir till thoroughly blended, then add one drachm each of oxide of zinc and of borax, drop by drop. When cool add a few drops of perfume. Rub some of this cream into the hands, then pull on some loose kid gloves. If the finger tips are cut off and a circle cut out of the palm, the results will be happier, as covering the hands tightly tends to make them yellow and ugly.

"My motto has always been," replied the man of money, offering his visitor a stogie, and lighting a good cigar himself, "Never despair."
"I thought," replied the interviewer, "that it was 'Never give up.'—but it amounts to the same thing, after all."—Cincinnati Times Star.

A waterspout spins with enormous speed. Its velocity at the sea level has been estimated at six miles a minute.

ROYAL TONIC TABLETS—FREE

WE are going to distribute ten thousand free sample packages of our great reconstructive remedy within the next 15 days. You can have a package and a copy of our free book by simply sending us your name and address. We intend that all who suffer from ailments resulting from a bad stomach, shall try this wonderful cure, at our expense.

Over 90 per cent. of all chronic diseases begin with indigestion. To effect a cure then, it is only common sense to strike directly at the stomach, where all the trouble has its origin. If your stomach is right, you'll be right all over. Royal Tonic Tablets are made for the use of people who deliberately or unwittingly abuse their stomachs. We don't say, stop eating and drinking good things, but we do say, use Tonic Tablets. They will keep your stomach right and give you new nerve force and strength.

Some firms put up a special tablet for separate diseases and sell a combined monthly treatment at a high price. Royal Tonic Tablets do the work of the whole combination at an infinitely less cost. They are put up in boxes containing 100 tablets. The whole month's treatment for \$1. postpaid. You can have your money back when the tablets are used up if you are not benefited. Write for a box today and be on the road to health tomorrow. Royal Remedy Co., Dept. A 488 Elliott Square, Buffalo, N. Y.

RUPTURE CURED while you work. You pay \$4 when cured. No cure, no pay. ALEX. SPEARS, Box 259, Westbrook, Maine.

A Dollar Ring for 12 CENTS

A SOLID GOLD SHELL SIGNET RING, WARRANTED for three years. Finished with a row of raised beading around top and any initial engraved FREE. The picture does not show one-half their beauty. They always pass for a \$5.00 ring and are all the rage at the present time. Suitable for men, women or children and we want everyone to get this ring so they may know the quality of goods we make. For this reason we ask you to send us only 12 cents to help pay postage on ring and catalogue. State size and initial.

S. H. BURNS & CO. 258-262 WASHINGTON ST. BROOKLYN, N. Y.

Heals and Protects
For Frotted Feet, Cracked Hands, Burns, Scalds, Cuts, Bruises, Corns, Bunions, Sores, etc. Guaranteed to give satisfaction. Not an experiment—A time tested, valuable healing remedy. Successfully used for 45 years. Sample 1st large stick 15c. post paid. Agents wanted everywhere.
Hull's Salve Co., Augusta, N. J.

Most Extensive Grower of Grape Vines
In America
Introduction of
CAMPBELL'S EARLY The Best Grape
JOSELYN The Best Gooseberry
FAY The Best Currant
Small Fruits Catalogue Free
OEO. S. JOSELYN, Fredonia, N. Y.

A Longing.

Written for Green's Fruit Grower by
George F. Cole.

In the cold and the snow of the winter
We long for the beautiful spring,
When the sunbeams alight on the clover,
And birds in the meadows shall sing.

When flowers are blooming as sweetly
As the scent of the incoming breeze,
And the grasses come back to the valley,
And the blossoms come back to the trees.

When the streamlet is filled with the glad-
ness
That reigns in the valley so still,
And the scent of the pinks and the roses
Is wafted all over the hill.

For the hill-tops are bluish and crimson
When all nature is smiling anew,
And the lowlands are filled with the bright-
ness
Of the starry bright jewels of dew.

Bees and Fruit Growing.

The entomologist in his work meets with two immense groups of insects, those which are injurious and those which are beneficial, says Professor W. Newell. There is no need of discussing the former class; the various insects which destroy our fruit trees, garden and field crops, and infest stored products of various kinds are examples. As a matter of course, this group has received the most attention. It is but natural that the attention of the farmer or fruit grower should be more forcibly attracted to the death of his trees or crops than to the constant yet quiet and unassuming work of insects which successfully hold in check many injurious species. Nevertheless it is as much the duty of the entomologist to assist in the increase and distribution of beneficial insects as it is to devise means for controlling the injurious ones.

As a matter of convenience we may place the beneficial insects in two groups, those which are indirectly of benefit to mankind by their parasitic habits upon injurious species, and those which are directly beneficial in that they create useful commercial products. The former groups may be illustrated by the various "lady-bird" beetles which destroy myriads of scale insects and plant lice; and by the parasitic Hymenoptera—for the most part very minute insects resembling bees or wasps—which live as parasites upon the adults, larvae or even eggs of destructive pests.

Of insects directly beneficial we may cite the silk-worm, the cochineal insect and the honey-bee. It is with the latter that we now have to deal. The relation of bees to fruit-growing has not received much attention from the average orchardist. I am convinced, however, that it is a subject of much importance and a discussion of this relationship will, I trust, be of some little interest. It seems to me very essential that we should arrive at a clear understanding of the relationship of these two industries, horticulture and apiculture, as they are of mutual benefit to each other.

Shall I Plant Trees?

Editor Green's Fruit Grower: I have just become of age and desire to start in a business for life. The question is, shall I plant our 54 acre Connecticut farm to fruits? The land is high ground, center portion being nearly level, one side slopes gradually to the east and the other to the west. The soil is deep and fertile. Our present apple, pear and peach orchards are doing well. The Bartlett pear does the best of any variety, hardly ever failing to bear abundantly, and the fruit is always perfect. Fifteen Bartlett pear trees net us \$25 to \$35 profit each season.

Reply: Since the pear trees bear abundantly such superior fruit, it is plain that this is the fruit for you to plant. As you suggest, rows of pear trees can be planted ten to twelve feet apart in the row, with the rows three, four or even six rods apart, leaving ample room for cultivation or for growing any farm crops desired between the rows of pear trees. These trees will bear fruit if, after a time you conclude to seed the lot down to meadow, but the fruit will not be so large and fine as it would be if the ground near the trees was cultivated during the growing season. Why not plant strawberries, raspberries, blackberries and other small fruits between the rows of pear trees, so as to keep the ground cultivated? You have a good opportunity for keeping poultry on your place. I advise you to confine yourself to one breed. Get pure blooded birds and you will soon have the reputation which will enable you to sell the eggs and surplus birds at fancy prices.

Slopay—I'll have to ask you to excuse me to-day. I'm not well, and besides, you'll have to see my wife about this bill.

Collector—Oh, see here! You contracted this bill yourself, and you should pay it yourself without—

Slopay—But I tell you I'm not my self to-day!—Philadelphia Press.

OUR PREMIUM OFFERS



We name below some Premium Offers that will please you. Many of the subscriptions to Green's Fruit Grower expire with November or December issues. Please send your renewals NOW. DO IT NOW, taking advantage of one of these offers, and we will extend your subscription ONE YEAR. We make few offers, but make these exceedingly desirable. All will be sent by mail, postpaid. See our Combination and Clubbing Offers with other papers on another page.

NOTICE:—When you send in your subscription you must in the same letter claim your premiums. If you fail to do this, it will be useless for you to make your claim later, since it is impossible for us to look over 112,000 subscribers to adjust such a small matter. ORDER BY NUMBER ONLY. Figure all subscriptions at 50 cents each, and then get premium for your commission. Plants will be mailed in early spring.

PREMIUM No. 1.

One strong well-rooted vine of the new and remarkably valuable grape vine called The C. H. Green Grape will be sent you by mail postpaid, with Green's Fruit Grower for four years, all for \$1.25.



PREMIUM No. 4.—A SCIENTIFIC MICROSCOPE.

This microscope is specially imported from France. As regards power and convenient handling, good judges pronounce it the best ever introduced for popular use. The cylindrical case is manufactured from highly polished nickel, while there are two separate lenses—one at each end of the microscope. The larger glass is a convex magnifier, adapted for examining insects of various kinds, the surface of the skin, the hair, fur, or any small articles. The other lens is exceedingly powerful and will clearly delineate every small object entirely invisible to the naked eye. Every farmer, family, school, and teacher should own a microscope. Send us 60c. for microscope and subscription to Green's Fruit Grower one year.

PREMIUM No. 5.



TREE AND GRAPEVINE PRUNER.
We offer the Levin Pruning Shears, being well tested by Chas. A. Green, best of all pruners, to all who send 75c. for our paper one year, who claim this premium when subscribing.

PREMIUM No. 6.

Rubber Stamp

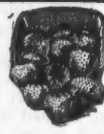
with your name and address. This is a valuable premium. It is a nickel-plated machine which you can carry in the pocket, with self-inking rubber type, which stamps your name and address on envelopes, letter heads, etc. so that your letters cannot go astray. Sent to all who send us 60c. for our paper one year, who claim this premium when subscribing.



PREMIUM No. 7.

Corsican

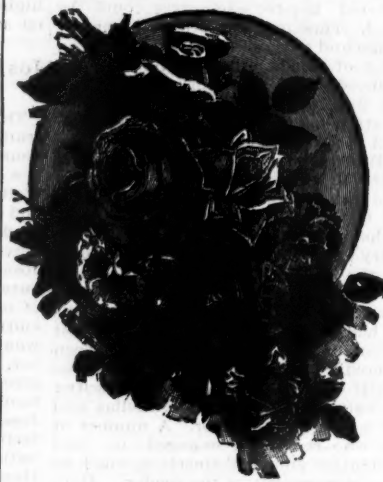
Ten strong plants of this valuable strawberry, perfect blossoming variety, of largest size, fine color, firm, and productive. Will be sent free to all who send us 50 cents for our paper one year, who claim this premium when subscribing.



PREMIUM No. 8.

Two Hardy Roses.

Two-year old out-door rose bushes which will blossom same year planted, and will be of the choicest varieties. These bushes will be sent to all who send us 50 cents for our paper one year, who claim this premium when subscribing. We will select an assortment of colors from the following hardy hybrid perpetual varieties: General Jacqueminot, Prince Camille De Rohan, Coquette Des Blanches, Coquette Des Alpes, Paul Neyron, Mrs. John Laing, John Keynes, La Reine, La France. The selection must be left entirely with us.



PREMIUM No. 9.

Two in One—Combined Pruning and Budding Knife.

This beautiful pattern, buck handle, razor steel, Combination Pruner and Budder, should be in every man's pocket who grows fruit. We offer it with Green's Fruit Grower for two years for \$1.00.



PREMIUM No. 11.

4 Red Cross Currant Plants

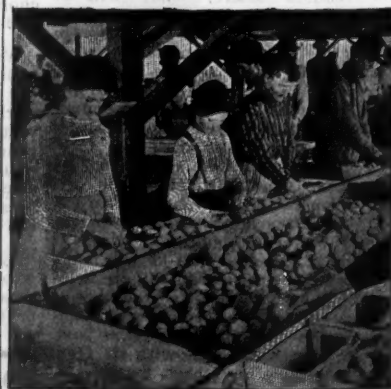
Four well-rooted plants of the new Red Cross Currant, the largest and most productive red currant, very vigorous in growth, clusters long, will be sent to all who send us 50 cents for our paper one year, who claim this premium when subscribing.



PREMIUM No. 12.

ONE NIAGARA PEACH TREE.

A new peach ripening one week earlier than Elberta, remarkably free from yellows and leaf curl, and cannot be surpassed in healthfulness and vigor. It is of large size, beautiful, and better in quality than Elberta. One tree will be sent to all who send us 50 cents for our paper one year, and claim this premium when subscribing.



PREMIUM No. 2.

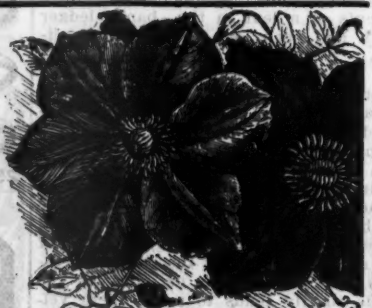
McPIKE NEW BLACK GRAPE.

One strong vine of McPike New Black Grape, a seedling of the Worden, fully as vigorous, hardy, and productive. Bunch very large, compact, black with blue bloom; berries mammoth size. The vine of this grape will be sent to all who send us 50c. for our paper one year, and claim this premium when subscribing.



PREMIUM No. 3.

We will mail you six plants of Green's New Unnamed Strawberry, pineapple flavor, large, productive, and vigorous, and Green's Fruit Grower one year, all for 50 cents.



PREMIUM No. 10.

Two Clematis Vines

One each of the following varieties:

Mad. Ed. Andre.—A distinct crimson red color, a very pleasant shade and entirely distinct from all others.

Jackmanni.—The flowers of this variety when fully expanded, are from four to six inches in diameter. Color, violet purple.

One each of the above vines will be sent to all who send us 50 cents for our paper one year, and claim this premium when subscribing.

Some Up to Date Fashions

The Voice of Spring.

Written for Green's Fruit Grower by
Ida A. Long.

For the convenience of the ladies in the homes of our subscribers we have made arrangements with one of the largest and most responsible manufacturers of patterns to offer some of their reliable patterns at the nominal price of 10c each. We have tested these patterns and take pleasure in recommending them to our readers.

4634—The quantity of material required for the medium size is 6 yards 27 inches wide, 3½ yards 44 inches wide or 2¾ yards 54 inches wide with ¾ yards of velvet and 5 yards of banding to trim as illustrated.



4634 Misses' Tuckered Blouse Coat.
12 to 18 years.



4631 Lounging or Steamer Gown.
34 to 44 bust.

4631—The quantity of material required for the medium size is 6 yards 27 inches wide, 6 yards 32 inches wide or 4½ yards 44 inches wide.

4632—The quantity of material required for the medium size is 5 yards 27 inches wide, 3½ yards 44 inches wide or 2¾ yards 54 inches wide with ¾ yards of braid to trim as illustrated.



4632 Sailor Blouse.
32 to 40 bust.



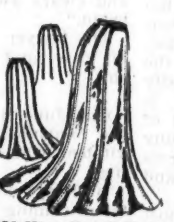
4633 Empire Nightgown.
32 to 40 bust.

4633—The quantity of material required for the medium size is 6 yards 36 inches wide, 2¾ yards of embroidery 3 inches wide, 2¾ yards 3 inches wide, 2¾ yards of insertion and 1½ yards of beading to trim as illustrated.

4630—The quantity of material required for the medium size is 3½ yards 21 inches wide, 3½ yards 27 inches wide or 2½ yards 44 inches wide with ¾ yards of banding and 2 medallions to trim as illustrated.



4630 Tuckered Blouse.
32 to 40 bust.



4629 Nine Gored Skirt.
22 to 30 waist.

4629—The quantity of material required for the medium size is 8¼ yards 27 inches wide, 4½ yards 44 inches wide or 4½ yards 54 inches wide when material has figure or nap; 4½ yards 44 or 3½ yards 54 inches wide when material has neither figure nor nap.

4645—The quantity of material required for the medium size (8 years) is 3½ yards 27 inches wide, 3 yards 32 inches wide or 2 yards 44 inches wide, with 1 yard of contrasting color for bands.



4645 Child's Russian One Piece Dress.
4 to 10 yrs.



4628 Child's Tuckered Frock.
1 to 4 years.

4628—The quantity of material required for the medium size (2 years) is 3 yards 27 inches wide, 2½ yards 32 inches wide or 2 yards 44 inches wide, with 5½ yards of insertion to trim as illustrated in the medium size.

To get BUST measure put the tape measure ALL of the way around the body, over the dress close under the arms.

Order patterns by numbers, and give size in inches. Send all orders to GREEN'S FRUIT GROWER, Rochester, N. Y.

I hear the distant murmur
Of voices, soft and low;
I hear them in the valleys,
I hear them 'neath the snow.
They sing a song of gladness
That brings our hearts good cheer,
Away with gloom and sadness,
For spring is almost here.

I hear the voices murmuring
Among the leafless trees;
The sounds are wafted to me
By every passing breeze.
They sing of showers and sunshine,
They sing of life and light,
They sing of bees and blossoms,
When days grow warm and bright.

The air is full of music,
The voice of brooks we hear;
The morning of awakening
Is dawning bright and clear.
Birds on the trees are swelling,
The flowers in beauty spring,
The birds will join the chorus
And make the old woods ring.

'Tis then that beaux and maidens
Will roam the flowery dell,
And pluck the fresh flowers springing
In haunts they love so well.
They'll wander there in moonlight,
When stars shine bright above,
And in this charming paradise
They'll plight their vows of love.

Box Them.—Mr. Hale thinks the family sized fruit package will be the one that is to be in demand, says Country Gentleman. The apple barrel is too large, and not more than 10 per cent. of apples consumed are sold to the user in whole barrels. Just what size will prove best, he was not prepared to say, but the bushel-box would get into many more families unbroken than would the barrel. It would pay to give the matter close attention. The breakfast-food problem has been largely worked out along the line of small fancy packages. Even the cracker trade has drifted into packages, and thousands of people carry home neat packages of crackers who would never buy them in bulk and carry them home in paper bags. The matter of reaching the consumer direct is worth considering, not only by the small grower, but by the large one as well. It looks like a large proposition to place ten thousand barrels among consumers, but it need not be impossible. There are department stores doing a million dollars a year, nearly all of whose customers they reach by mail, express and freight. If you can eliminate the jobber and the retailer in selling your stuff, you can reach the consumer with a smaller price and at the same time get more. The consumer gets the retailer's profit and you get the jobber's. Mr. Hale devoted a few minutes to describing his methods of advertising and selling. He puts his name only on extra and first-class peaches. Seconds go without his label, taking their chances on the general market. His culls in Connecticut are sold to Jew hucksters, who come to the farm for them. In Georgia the overripe and culls go to the canning houses. Make the boxes now, or get them made at the box factory. Don't wait until you need them.—Editor, G. F. F.

Fire Alarms.—Mr. Ward says: For years the public schools had trained its children to fire alarm. This training goes through every grade. It is begun in the lowest grades. In order not to frighten the children, the principal tells them that within a week an alarm of fire will be rung, and they must not be frightened. Just before the alarm is rung, the teacher tells the pupils that there will be an alarm in a few minutes and to put their books quietly away, and to be ready for it. Then the alarm is rung, and the children are fled out under no stress of anxiety. This training goes on for several weeks until the principal says that the next time the alarm will be unannounced and that the children are not to be frightened when they hear it, but to accept it with instantaneous attention. The result is that the school is emptied in a very few minutes without the least panic.

Thus every young child who goes to school in that city is put through a course of training in self-possession during his whole school period, just as he is trained in mathematics or in history. The consequence is that when an alarm is rung in any part of that city at any time there can be no panic, because it has been trained out of the citizens while they were in the plastic period of youth.

Dear Sirs:—Green's Nursery Co.'s new catalogue for 1904 outshines all previous catalogues. I have the largest orchard of any man in this country. I have planted trees from your nurseries, also trees from western nurseries. Your trees have outstripped all others. Your trees have the snap and vigor and life, and it is a pleasure to see them grow and spread out. The Wickson plum trees you sent me two years ago bore some fruit this year.—William Storts, Iowa.

Some Wise Old Sayings.

A blithe heart makes a blooming visage.
Avarice generally miscalculates, and as generally deceives.

A burden which one chooses is not felt.
A man had better be poisoned in his blood than in his principles.
A careless watch invites a vigilant foe.
A virtuous mind in a fair body is like a fine picture in a good light.

Acquire honesty; seek humility; practice economy; love fidelity.
A clean glove often hides a dirty hand.
A chaste eye exiles licentious looks.
Against fortune oppose courage; against passion, reason.

A clear conscience fears no accusation.

A man that breaks his word bids others to be false to him.

A contented mind is a continual feast.
Adversity willingly undergone is the greatest virtue.

A cracked bell is never sound.
Adversity successfully overcome is the highest glory.

A drowning man will catch at a straw.
Affairs must suffer when recreation is preferred to business.

A faithful friend is a strong defense.

A man that outlives his reputation soon becomes miserab

Affectation in dress implies a flaw in the understanding.

A faithful friend is the medicine of life.

A flatterer is a most dangerous enemy.
Affectation of wisdom often prevents our becoming wise.

A fool's heart is ever dancing on his lips.

A false-grounded hope is but a waking man's dream.

A fop is the tailor's friend and his own foe.

A good word for a bad one is worth much and costs little.

A friend is never known till needed.

A passionate man rides a horse that runs away with him.

A gift long-waited for is sold, not given.

A bad man, whatever his rank, has a blot in his escutcheon.

A good maxim is never out of season.

A good servant makes a good master.

A precipitate choice makes way for a long repentance.

A good tale, ill told, is a bad one.

Anger is like a ruin, which breaks itself upon what it falls.

A good life keeps off wrinkles.

Influence of Talk.—At a meeting of the society, Professor Taft was present and gave a talk on "Spraying." A lady present seemed much interested and asked some questions. She went home and through her influence and advice her husband was persuaded to renovate and care for a neglected orchard on their place. This orchard contained eight and three-quarters acres and during a single season the results were such that a mortgage was lifted. Said he would not give the exact figures as the story would not be credited. From remarks made afterwards we concluded that the results were something over \$3,000. The secretary said that he hoped that results from this meeting would be as great. The fruit crop through his part of the state had been a bumper one and owing to a shortage in the crop in the East, the prices were unusually good. Eastern buyers had come right to their orchards and by bidding against each other had materially aided in sustaining higher prices.

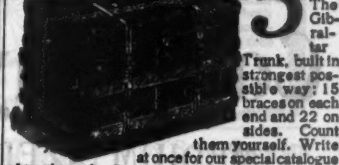
A Rat Remedy.—Take beer-bottle corks and slice them very thin with a very sharp knife. Then fry them in hot grease and put them where the rats can get them and you will find the skeletons when you move your corn. If you have your crib floor tight and put a strip of screen wire around sides under the boards it will help to keep rats and mice out. Did anyone ever tell you that a bedding of millet hay will make the lice leave hogs? The way to "be shown" is to try.—Kansas Farmer. [Just why beer-bottle corks must be used would be interesting to know. Is there something about a beer-soaked cork attractive to rats?]

How Ideas Differ.—It is funny, isn't it? says Denver Field and Farm. Farmers, when they wish to retire, move to town. Townspeople, when they wish to retire, move to the country. A man has poor health and he moves to town to rest up and get well where he will not be bothered with hard work. The city man, when he has poor health, will go to the country with a tent and pitch it under some shady tree where he may enjoy the Rocky Mountain scenery and rusticate in the enjoyment of a perpetual picnic.

A large orchard poorly planted and poorly tended will not produce as good results as fewer trees well cultivated.

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OPIUM

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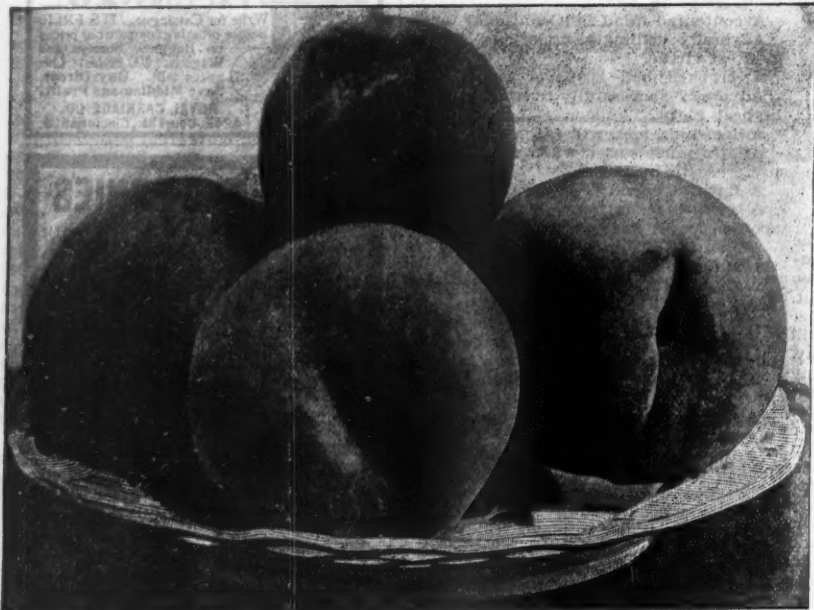
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**MEDIUM SIZED PEACH TREES AND
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Also, Small Sized Apple and Plum Trees FOR SALE at Low Prices.



Niagara Peach This photo-engraving represents three Niagara Peaches, on top of these three is placed one Elberta peach to show the comparative sizes of these two varieties. Niagara is the largest, most beautiful, and most profitable of all peaches. It has been called the improved Elberta. It ripens between Early Crawford and Elberta. Its foliage is large and leathery, and the trees are remarkable specimens of vigor. It is the great market peach in Western New York. **WE OFFER 10,000 3 to 4 feet N I A G A R A P E A C H T R E E S** at a low bargain price. These trees are well rooted, well branched, straight and nice, just such as we would like to plant for our own orchard.



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WE OFFER 30,000 apple trees 4 feet high, well branched, nice straight bodies and good roots at a bargain price and a large assortment of varieties.

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WE OFFER plum trees 3 to 4 feet high, and assortment of varieties. There are many of the famous York State prune in the lot which we offer at a bargain price.

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Green's Nursery Co., Rochester, N. Y.

Aunt Jerusha's Rhubarb Patch.

Written for Green's Fruit Grower.



Aunt Jerusha Simmons was acknowledged to be a character in her way. She was Aunt Jerusha to everybody in the village where she lived, although her only relative was a nephew in the Far West, from whom she rarely heard.

She had been born and brought up in the little village of Weston, on the little farm which had been her father's, and which had been left to her at his death. She had never married, not, it was said, from lack of opportunity, but because she preferred to live in single blessedness. She had been for years the good genius of the neighborhood; knowing all the old-fashioned simples and remedies; ministering to all those in trouble or sickness; ready with help and advice at all times; dispensing charity, but not blazoning it abroad.

Now she was getting along in years, being nearly seventy at the time of which we write; still energetic, active, with a mind as clear as at forty; but, as she could not fail to realize, unable to perform as much labor as formerly. She knew that she had nearly reached the three-score-and-ten years allotted to mankind.

Now, it was Aunt Jerusha's earnest desire to leave some memorial, something which should perpetuate her name; she would have dearly loved to erect a public library, to be called by her name, the Jerusha Simmons library; but, as she possessed only a modest little competence, not nearly enough for such a purpose, she regretfully gave up this idea, and set herself to think of some other way of keeping her memory green.

It so happened that Aunt Jerusha had the old-fashioned belief in the all-pervading usefulness of the 'pie-plant' of our grandmothers. She was firmly convinced of its efficacy in curing nearly all the ills that flesh is heir to, if taken in time and in sufficient quantity. "For," she said, "if anybody's sick, it always means his blood is poor, and rhubarb is good for the blood." Therefore she believed implicitly in this succulent (thought tart) vegetable. Then, too, she did not lose sight of its uses to the busy house-wife; it could be so easily obtained and so quickly prepared; it was, withal, such a satisfactory sort of an article, that Aunt Jerusha joyfully formed a plan in which the chief role was to be enacted by the humble and oft-despised 'pie-plant.'

Aunt Jerusha possessed the most beautiful field in the whole village; of several acres in extent, with very rich soil and well-drained, it yielded every year a large crop of hay. She concluded that this would be an ideal place for planting rhubarb; for this was her plan, to plant a field of rhubarb to belong to the villagers, "to have and to hold, for their use and behoof forever."

There was much wonderment in the village when Aunt Jerusha's hired man began plowing up the "South field;" and the wonder was increased when the unsightly rhubarb-roots were planted. But still greater surprise was expressed when it was noised abroad that everybody who wished might have all the rhubarb desired just by taking the trouble to ask Aunt Jerusha for it. Some, as they saw the great field, when the deep green of the leaves contrasting with the tender pink and yellow and red of the stalks, availed themselves of Aunt Jerusha's offer; while others, thinking it was only an old woman's whim, began to whisper it abroad that 'Aunt Jerusha was surely in her dotage.'

Aunt Jerusha, however, kept on the even tenor of her way, and the rhubarb-field flourished and waxed green for several years, a source of health to all those who had the wisdom to partake bountifully of its fruits, for in course of time 'Aunt Jerusha's rhubarb-patch' became a well-known and well-patronized institution, and those who "came to scoff remained to—gather rhubarb."

Thus passed the years, and at last Aunt Jerusha was gathered to her fathers; and in her will, knowing that her nephew was a wealthy man, she left her little farm to be used as a park by the villagers, on condition that the rhubarb-

patch should always be cared for, and that thus should be provided free to all comers nature's preventive for all ills. If the field of pie-plant were not kept in good condition, then the whole property was to revert to the aforesaid nephew.

The strange provisions of the will excited a little surprise and ridicule at first; but the "pie-plant" had already so well proved its usefulness, that soon it became a matter of course to depend upon it, and in time of need many were the persons who had recourse to "Aunt Jerusha's Rhubarb-Patch."

Dr. James looked somewhat grave. His patient, little Johnnie Swift, was seemingly unable to recover from his illness; he improved to a certain point, and beyond that point seemed to gain no strength.

"Do you think he is getting better, doctor?" asked Johnnie's mother.

"I can't seem to get him beyond this point," said the doctor.

"I want some of Aunt Jerusha's rhubarb," said Johnnie. "Can't I have it, please?"

The doctor considered carefully a moment. He knew it could do no harm. The child seemed in earnest in making his request so, though doubting that it could do any good, he gave his consent. At once Johnnie's little brother was despatched to "Aunt Jerusha's rhubarb-patch," and the next day when the doctor saw his patient, there was a decided change for the better. The improvement continued, and soon Johnnie was his merry self again, and "It's all owing to Aunt Jerusha," his mother said.

"Here, Jack," said Mrs. Carson, to her hopeful, one May morning, "you take the big knife, and go up to Aunt Jerusha's rhubarb-patch, and bring me an armful of rhubarb. You children all look sort of pindlin', and I'm going to make you some rhubarb sauce, to give you all an appetite."

Jack went. Three days later, Mrs. Carson was heard to remark:

"Land sakes, I can't seem to cook enough for them children to eat; three days ago there didn't one of 'em eat enough for a bird, and I just sent Jack up to Aunt Jerusha's rhubarb-patch, and made some sauce for them; now they're eating me out of house and home. Aunt Jerusha knew a thing or two."

"Mother," said Lawyer Brett to his wife one morning, "I have a hard case to plead this afternoon, and I'll have to be pretty clear-headed to get through it all right. I wish you'd send Bob to get some rhubarb from Aunt Jerusha's rhubarb patch, and make me some rhubarb-sauce. It's better than any tonic, and clears away the cobwebs from my brain."

The lawyer got his rhubarb, and won his case, and all owing to Aunt Jerusha.

One June morning, Mrs. Hammond, the minister's wife, was busy in her kitchen, when her husband entered, saying:

"Carrie, I do believe there are two ministers coming up street. They look like Easton and Churchill, and you'll have to invite them to dinner."

"Oh, Charles, I can't," was the answer, "it's Monday, and I haven't anything ready; for those three ministers we had yesterday disposed of everything I had cooked. I've nothing but eggs, the butcher doesn't come Monday, there's only half a pie in the house, and it's 11 o'clock now."

"Well, can't you send Harry over to Aunt Jerusha's rhubarb-patch, and make some sauce, or pudding or something?" and with these words, he went out to meet his guests, for guests he knew they must be.

Away went Harry at full speed over to the famous rhubarb-patch: and the ministers never knew that their dessert on that day had been fore-ordained for them by Aunt Jerusha.

And so it goes; the field of pie-plant still flourishes; the name of Aunt Jerusha is still green; and every spring there are many in Weston who gratefully remember Aunt Jerusha, for her foresight and the happy thought which led her to plough up her "South lot," and to plant her rhubarb.

Her nephew has never had occasion to put in a claim for the little farm; for, till time shall end, the villagers of Weston will be thankful for "Aunt Jerusha's Rhubarb-Patch."

Here is an English receipt for polishing furniture. Shave yellow beeswax into enough turpentine to make it of the consistency of paste. When it is dissolved apply with a soft flannel rag to a part of the surface to be polished. Rub vigorously.

Shepherd of the Sea.

I am a mighty shepherd, and many are my flocks;
I lead them, I feed them among the weed and rocks.
My shepherd's crook is fashioned out of a Norway pine,
And there's no sheep dog in the world will help these flocks of mine.

My fold is wide, and day and night the wall shift of my fold,
No upland, no lowland my lambing ewes withhold
From the cry of their shepherd, the beckoning of his hand;
For my own desert places they leave the pastureland.

With wild white fleeces surging about me to my knees,
I go about my herding, the Shepherd of the Sea;
I call to the rock pastures the white sheep of the waves,
For they but find their grazing where sailors find their graves.

Nora Chesson in New York Tribune.

Buying Horses.—I am compelled to buy horses every year for use on our various farms and elsewhere. I expect to get cheated every time I buy a horse and yet have never been badly taken in in any horse deal. I know of nothing the buying of which necessitates so much risk as the buying of horses. There are so many peculiarities of these animals, so many tricks, so many kinds of unsoundness, and such varying dispositions, it is difficult to tell just what you are buying when you buy a horse. In buying a horse we are advised to be as wise as a serpent and gentle as a dove, but not soft. Professor Alexander, V. S., in his extended report gives the following hints which we cull from his reports in regard to buying horses: When a horse has a spavin it is an easy matter to beat the other hock joint with a switch until it swells to the proportion of the blemished hock. Sometimes both are beaten until they are alike, swollen, sore, causing stiffness termed the result of "standing in the barn," or a "slight cold and stocking of the legs." In such cases the buyer is also beaten. In the same way the "heavy" horse is doped for inspection and breathes beautifully at time of the expected visit. Better smell of his hay for "ammonia" or Fowler's solution of arsenic, and of his breath for chloral hydrate or opium. Better let him stand a while or give him all the water he will drink and hay he will eat before testing his wind. Better step up beside him in the stall and see if he is a "weaver" or a "cribber and wind sucker." Better see if he will let you into and out of the stall without pulling your coat tails. Then it is well to see him at rest. Mr. Dealer is an artist at keeping an unsound horse constantly on the move to hide St. Vitus' dance or "shivering," crampiness, stringhalt and spavin lameness. When the cracking of whips and rattling of door chains or locks commence or the stick is made to "rat tat" in a hard hat, look out! Better wait until the campaign is over and commence again in your own way. Then, too, both sides of a horse are often not alike. There is one good side and another very bad side, but the bad picture is always turned towards the wall and if one is not careful and onto this scheme he will never see the bad side at all. Have the leather sole, tar and oakum removed before you decide as to the condition of a horse's "sole." See that quarter cracks and sand cracks are not neatly filled with beeswax and varnished or smeared with hoof ointment. Incidentally it is well to make sure that the horse has not a glass eye, a sponge occluding one nostril to prevent snoring and loud breathing or a "joined on" tail, the relic of some past "beauty" of the establishment. And what charming naive and innocent terms the dealer in the large city has for some common ailments and blemishes! To hear him speak all such things are "little." When a horse is "hipped" (hip knocked down) it has "a little dimple;" possessed of a curb he "is a little round in the hock;" spavined, he has "coarse hocks;" with sidebones he is "a little cold footed;" moon blind (periodic ophthalmia), he is a "little smoky;" knee sprung he is "a little restless;" unmanageable in his stall he is "a little goosey;" afflicted with founder or navicular disease he is "a little ouchey." Just think of these neat "little" blemishes for a moment. They are all announced, but you have to understand the language and know the signs. If the horse in-

dividual informs you that the grand "hoss" before you "talks to his driver," you would scarcely expect this to mean that he is a "roarer." "Some reading on him" might, however, tell you that he is branded and a "few white hairs" that he has a hideous barb wire mark. But supposing he termed him "a Michigan age," possessed of a "Michigan splint," you would not understand that he was old enough to vote or kicked his own shins every time he moved fast. You would know what "balky" meant, but not when termed "goes ten minutes short of work." Then there are a host of other terms common in the business, but it is unnecessary to give more. What we have said should surely impress upon every farmer the necessity of learning to judge for oneself, to take nothing for granted and to be an expert in the examination of horses for soundness.

Peaches and Apples for Maryland

From a paper read before the Maryland State Horticultural Society at Baltimore.—By J. G. Harrison.

I name twelve varieties of peaches for the eastern shore of Maryland, most of the up-to-date planters include the following varieties: Greensboro, Carman, Mt. Rose, Elberta, Reeve's Favorite, Old Mixon, Belle of Georgia, Fitzgerald, Moore's Favorite, Fox Seedling, Chair's Choice and Crawford Late. For the mountainous districts they use most of the above varieties with Smock, Greary's Holden, Wonderful, Engle's Mammoth, Pickett's Late, Lerey's Late, Crosby Salway and Bilyeau's Late October, now have we yet room for new ones.

Apples are attracting the attention of the fruit grower as well as the farmer more than at any other time in the past history, as the apple has become a necessity. Only a few weeks ago, I had the pleasure and honor of visiting Frederick Wellhouse, of Kansas, at his home. A man of 75 years of age, full of enthusiasm on apples. He has now planted 1,635 acres, and is recognized as the apple king of the world, has made a financial success and from the earnest advice he gave on apple growing made me feel that it was a great pleasure to be an apple grower. He impressed on me the necessity of system, keeping accurate accounts of what is expended and insists that the man who plants apple trees, cultivates well the first five years and has push and vim and make his orchard self-supporting for the first five years, cannot help but succeed.

Mr. Wellhouse succeeds best with the following varieties named in order as to their value: Jonathan, Mo. Pippin, Ben Davis, Winesap, Gano, York Imperial, Maiden's Blush and Cooper's Early. The two last named varieties he has marked from his list in his last plantings.

His largest crop was in 1890, being 79,170 bushels from thirty-five acres. He prefers the high hills of the best soil for best success and such land costs him \$50 per acre. He has made a reputation as a successful apple grower and is proud of his profession which has helped toward success.

After spending three weeks in the West seeing where the apple seedlings were grown on the black bottom soils where it is frequently overflowed by water, their nurseries and orchards, and while they do not go through the winter safe, I feel better contented with Maryland as an apple growing state far in advance of any other I could select especially the rich hill soil of Washington county.

We have better apple soil, richer, cheaper, nearer the exportation port, cheaper labor, and many natural advantages. We have in our state some of the most valuable apple soil the sun ever shone over. There is no reason for leaving the state to find land to engage in a profitable and delightful business. About 75 per cent. of the apples planted on the mountainous regions are York Imperial and Ben Davis, while Grimes Golden, Mo. Pippin, Gano, Jonathan, Landlord, Seedling, M. B. Twig, Winesap, Stayman's Winesap, N. W. Greening, Rome Beauty, Smith's Cider is planted in light quantities by many.

The truth, the hope of any time must be sought in the minorities. Michael Angelo was the conscience of Italy. We grow free with his name, and find it a mental now, but in his own day his friends were few.—Emerson.

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Special arrangements have been completed whereby Green's Fruit Grower is able to present to its readers some great combination offers on papers and magazines for the coming year. We name a few below. If you will send us a list of any others you require we would be pleased to quote figures on same.

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Woman's Home Companion,
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Vick's Family Magazine,
Green's Fruit Grower.

All four papers one year for \$1.25. Publisher's price, \$2.60. See other liberal offers on another page.

No. 2.

Housekeeper,
Poultry Keeper,
Vick's Family Magazine,
Farm Journal,
Green's Fruit Grower.

All five papers one year for \$1.25. Publisher's price, \$2.60.

No. 3.

Reliable Poultry Journal,
Missouri Valley Farmer,
Woman's Magazine,
Green's Fruit Grower.

All four papers one year for 80c. Publisher's price, \$1.60.

No. 4.

Woman's Magazine,
Vick's Family Magazine,
American Poultry Advocate,
Housekeeper Magazine,
Green's Fruit Grower.

All five papers one year, \$1.00. Publisher's price, \$1.95.

Address, GREEN'S FRUIT GROWER, ROCHESTER, N. Y.

No. 5.

Farm Journal,
Vick's Family Magazine,
Green's Fruit Grower.

All three papers one year for 60c., the value of one. There are others nearly as liberal on another page.

No. 6.

Woman's Magazine,
Vick's Family Magazine,
American Poultry Advocate,
Green's Fruit Grower.

Publisher's price, \$1.35. We send all four papers to one or separate addresses for 65 cents.

No. 7.

Vick's Family Magazine,
Woman's Magazine,
Green's Fruit Grower.

All three magazines for 55c. Publisher's price, \$1.10.

No. 8.

Woman's Home Companion,
Vick's Family Magazine,
American Poultry Advocate,
Green's Fruit Grower.

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To the Publishers of "GREEN'S FRUIT GROWER," Rochester, N. Y.

How To Test Coiled Spring Wire.

Take a piece of No. 18 wire and coil it firmly around an inch rod of iron, as shown in figures 1 or 2. Try to pull the coil out of it. You may think you have done so, but upon releasing, it will assume shape shown in figure 2. Then look along the wire as you would a gun barrel; it will appear as shown in figure 3—has the appearance of a tube. This explains the great advantage of COILED SPRING WIRE and how it provides for contraction and expansion.

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Our Correspondence.



WHAT I LIKE IN GREEN'S FRUIT GROWER.

First, I like the instructions you give on planting, pruning and growing of orchard fruits. Few people know how to do many things connected with fruit growing. Then I like that which your paper tells of the peculiar values of certain varieties and their adaptation to different localities. I hope you will continue to give straight-forward descriptions of fruits, telling the weak points as well as the strong. I like the religious reasoning that I find on every page. I like Professor Van Deman's replies to inquiries. My young people are pleased with Aunt Hannah's replies. I like the correspondence columns. Your editorials are prized as coming from one who knows. P. C. Reynolds' experience department is good as is also the good cheer department. If there is anything I do not like it is the funny paragraphs. —J. M. Shenk, Ohio.

THE UNIVERSE CHANGEABLE.

Editor Green's Fruit Grower: Few people realize that the universe, that is the sun, moon, the planets, the stars, everything that we see in the heavens on a bright night and much more, is merely a passing apparition. They may seem to be permanent to us who are creatures of brief duration, but to the Creator they must seem something like soap bubbles to a child. Celestial bodies, stars, planets, suns, moons are created and annihilated continually. There is the same changeable life in the heavenly bodies as in the earth and earthly affairs. As man is born, grows to manhood, reaches old age and dies, so the suns, planets, moons and other heavenly bodies are born, mature and pass away. The possibilities of the universe are unlimited. Almost everything that is imaginable is possible with the heavenly bodies. All things are possible with the Creator. It seems to us impossible that any creature can live on a very hot globe, planet or star, but with the Creator it may not be impossible. If we had never seen creatures live in water we would say it was impossible for anything to live in water because we could not live there. In studying zoology or botany the student will often conclude that it is difficult to imagine an animal or a plant that God could not have created. It is the same way with affairs astronomical; all things there seem possible. The teachings of ancient philosophers and theologians are being re-affirmed by modern science.—Fred Jenny, Cal.

CISTERN FOR LIQUID MANURE.

In a recent issue of Green's Fruit Grower I see advice given in regard to soft or muddy barnyards. My barnyard was thus objectionable until I drained it by sinking a cistern in the center of the yard, into which all the liquids drained. I provided eaves for the barn so as to keep the water from the roofs of the barn from entering the barnyard. The rain and snow which fell all leached through the manure into the cistern. The liquid manure thus preserved in the cemented cistern I applied to my plantations of strawberries, raspberries and blackberries, also to vegetables of all kinds with remarkable success. The value of this liquid manure will depend upon the amount of manure in the barnyard and its richness. Surely if there is but little manure in the yard and there is much water the liquid secured will not be so valuable. I cannot think that a farmer is doing his farm justice if he fails to build a cistern in his barnyard as I have done. How often we see liquid manure escaping from the barnyard, particularly in the spring season, running off into the brooks or ditches. A large portion of the better part of the barnyard manure is lost each year in this manner. By my method it is all saved.—J. H. Munnell, Ohio.

WHAT I WOULD DO IF I WERE VERY POOR.

Editor of Green's Fruit Grower: I was surprised to see so many letters on the above subject, all representing different ideas, yet none of them conform exactly to my way of thinking. In the first place, I would strive to live an honest, upright and industrious life, which I think is necessary to be successful in any calling.

Then I would seek some employment with either brain or hands. If I could not get just what I should like to do, I would do that which was nearest at hand, and still watch for something more congenial. I think any one who is able and willing to work can find something

to do, by which they may supply their wants.

I would not attempt to follow extremes of fashion in dress, neither would I ignore them entirely, nor absent myself from church services because I could not dress as well as other people. A woman can, with taste and ingenuity, dress respectably with a very little money, even less than a man can. I would live on plain food which is far the better way under any circumstances. The reason a great many poor people are poor is because they spend every extra nickel for something to eat or drink which they would be better without, thereby encouraging their appetite for such unwholesome diet and destroying the appetite for nourishing food. I would not expect nor encourage help from those who had more of this world's goods than I, but would prefer to live as my means would allow and have the satisfaction of knowing that the little I had was really my own. I would try to save money for emergencies if I could do so without depriving myself of all the pleasures of life, but if I could not, then I would live for the present and rest assured that the Father of all will provide some means if I should become disabled for work. I think as F. A. S. writes in her letter to Aunt Hannah that a Christian has no right to be anxious about the future.—C. M. J., Ohio.

Editor Green's Fruit Grower:—My son owns eighteen acres which is hilly in part and part bottom land adjoining a river. The hills are sandy sloping to the east, south and north. In some places the hill sides are very steep. My son has decided to embark in small fruit growing. I have long been a subscriber to Green's Fruit Grower and will ask you now to advise what to plant and where to plant it on this little farm. I have had great success with Rochester trees. The Red Cross currant has far exceeded my expectations. My young quince tree bore twenty-five specimens this year.—Mrs. E. S., Ohio.

Reply: The low lands you speak of would doubtless be the most fertile and the most desirable place for the strawberries and other small fruits, providing you are not troubled with late spring frosts. The objection to such low land in Western New York is that occasionally we have frosts in June which destroy the blossoms and thus seriously affect the crop of fruit. The hill tops and hill sides would be much more exempt from frosts in the growing season. The steep hill sides you speak of can be planted to apple trees or in fact to cherry, plum, pear or any other orchard trees. We had just such a hill side on my father's farm. When I was a boy I planted an orchard there that has been remarkably productive. If the soil is poor it must be enriched. If the roll can not be plowed or cultivated easily dig large holes when planting the trees and after the trees are set in the ground put a heavy mulch of straw manure around each tree on the surface to hold the moisture. Sandy soil is not usually so rich as clay loam. Do not expect to make a good orchard without making the soil fertile. Steep hill sides are not adapted for small fruits since it is so difficult to cultivate them. If the hills are sandy they may also be too dry for strawberries, raspberries and blackberries which require considerable moisture in the soil. I cannot advise you accurately without knowing more of your soil and of the circumstances.

I have lately subscribed for Green's Fruit Grower. We consider it the most helpful magazine ever published. It is valuable not alone for the fruit grower but for the villager and city resident as well. Your friendly editorials, in which you bring your personality in direct contact with your readers, makes us all feel that you are our friend. I prize Prof. Van Deman's answers and other articles very highly. Also P. C. Reynolds' articles, the health department, nature studies and poultry department. It seems that a department describing the improved forms of farm machinery would be helpful, also a department for buildings, also about ginseng.—A. F. Staley, N. Y.

Editor Green's Fruit Grower: Walter Pease apple is a superb affair. I had grafted it into an old tree. The grafts bore last fall. The apple outside resembles the Fameuse, but is larger and not quite so red. The flesh, however, is exactly that of Shilawasee, which is another seedling of Fameuse. The flavor is not that of Shilawasee, but that of a first class Fameuse. It keeps into mid-

winter, perhaps later, one of the finest apples I ever saw or ate. I see that you have Wismer's Dessert, which I have not yet tested. I have found an apple in a neighbor's orchard which from October 1st to January is the most delicious I ever tasted, melting, juicy and highly flavored, but does not rot. It is green with occasionally a blush. I cannot find name. I should like to try Fanny and Wismer's Dessert.—E. P. Powell.

THE CHERRY ORCHARD.

Editor Green's Fruit Grower: It seems to me that there is a good future in store for the grower of cherries of the sour varieties. The original cost of the tree, the depredations of birds and the difficulty of procuring pickers, are considered prohibitive by a majority of growers and an orchard of a size such as is seen in other classes of fruit, is a rare sight. The first cost is slightly in advance to that of many other fruits but then a cherry tree occupies less ground, lasts longer and bears more regularly and heavily under equal conditions. The frightful depredations of robin red-breast in the single family tree resolve themselves into a negligible quantity, when an orchard is considered and, as for pickers, I have yet to see a crop of cherries go to waste. The farmer finds that they pay so well, he had better neglect his work to pick them, and is glad to pay the young folk 25 cents a basket to help. In our own district the town boys and girls regard the cherry season as their harvest, and go all over the section in great loads, cleaning up the average orchard in a couple of days.

The market shows no inclination to drop on cherries. There is standard demand such as is not apparent in many other fruits, and it is steadily becoming greater. The canning factory, the opportune arrival of which has been such a boon in relieving the glut in peaches, pears, plums and apples, bids likewise for the cherry product, in which there is no glut and market prices are affected. There is a farmer in this section, who set out an acre plot in Montgomery, seven years ago. This year he just cleaned up a little more than \$400 from that acre. Moreover, he never picked nor handled a single one, nor had the worry of keeping tab on commission merchants. He sold the entire product of the trees to an American cannery, pocketed his check and was, as he had a good reason to be, a happy satisfied man. He may have been an exception. Personally I do not know any one else

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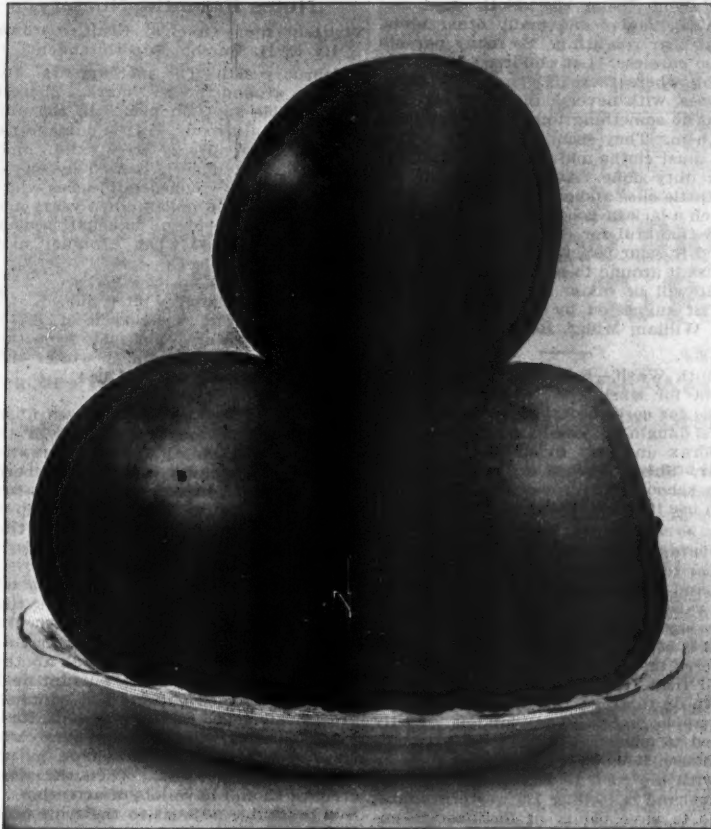
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BANANA APPLE.

Banana Apple.—A friend told me yesterday that he planted Banana apple trees three years ago and that these trees bore fruit last fall. This indicates that the Banana is an early fruiting variety. I am at this date, February 8th, eating Banana apples and have been for several weeks. I have my apples stored in bushel boxes in a cold storage building and take them out only as I want to eat them. The first winter apple eaten was the American Blush. After these were all gone I commenced on the Banana. I carried several of the Banana apples to the Western New York horticultural meeting, giving several of the members an opportunity to test its quality. Many spoke of its pronounced banana flavor; after eating a mouthful of this apple you have the

who did so well, but it is quite possible for many to do so.

The day of the old, dense, tangled, fence-row cherry shrubbery is past and over. Even it pays as well perhaps as any other part of the farm, but it was unsightly, and the dense growth which prevented the sunlight from reaching any but the topmost branches, lessened the crop and made picking wearisome. A cherry tree needs as good treatment as a plum tree. Plant in good soil, 16 to 18 feet apart, head low, trim regularly, cultivate thoroughly, spray a little and everything will go right. If not making rapid, vigorous growth under this treatment, something is wrong. The trees may be hidebound and a few cuts lengthwise in the bark on the north side will prove a remedy. Black-knot which is so prevalent in the fence tree, and in the wild variety when cultivated, is practically unknown in the improved strains such as the Montgomery.—J. Skelton,

If I were rich and wanted to spend my money I would build one mile of good countryroad in different parts of our country. A road that would last for all time to come (for an object lesson.)

And, if I were very poor I think I would try to grasp all the opportunities that were thrown in my way. I think a great many do not improve the opportunities that come their way. And some haven't the nerve to grasp them. We are delighted with Green's Fruit Grower.—E. W. Dally.

I wish to thank you for the good your books, How I Made the Old Farm Pay, etc., have done me. I am delighted with the way in which you tell of your experience. I was interested in the part devoted to how to propagate. I always had a natural bent for farming but have never had an opportunity to develop my abilities along that line. In this locality a farmer has planted a large field of trees into which he turned his cattle later. They browsed on the tops and broke down many of the trees. This kind of work disgusts me.—A. C. Abbott.

Editor Green's Fruit Grower: Have been trying to secure subscribers to your paper. I hope to find some people who

sensation of having eaten bananas for half an hour. Some of the largest orchardists were greatly interested in the quality of this superior apple. Professor Van Deman says he considers the quality of Banana even better than that of Swaar. Last year Banana at this date was as yellow as gold, with scarcely any red blush. This year Banana is covered with a blush so that in the box they almost look like red apples. This is simply a peculiarity of the past season which has been a very favorable one for apples. Ordinarily Banana is a golden yellow apple. We have been growing Banana apple at Green's fruit farm for many years. The tree is a good grower. It is an attractive variety. No orchardist should feel satisfied without having at least a few trees of Banana in his orchard.

are sensible enough to appreciate it. Find two families who take it. Some say, "We take so many papers now," and they tell of such papers I would not take. I find nothing in yours that is not worth reading and there is so much in it. The health hints alone, if heeded, would greatly benefit people.

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RYDINE MFG. CO., 284 Mill St., CONCORD JUNCTION, MASS.

That about rinsing the mouth often, and of eating slowly and many other hints, would bear repeating. So many parents are so careless. Let children come from school, where there is chance of taking diseases, with never a thought that they might do something to prevent their taking them. They seem only to think that they must clothe and feed them, and call their duty done. Am interested in the dear little ones and am grieved that there is such a lack of good teaching for youth. I am thankful for every good hint contained in your paper. Then I take pains to pass it around to my neighbors, thinking it will be taken in a better spirit than if suggested by one in person.—
Mrs. William Miller, Red Creek, N. Y.

Mouth Wash.—Below is something excellent for rinsing the mouth or as a gargle for sore throat, given by a physician's daughter: One-half teaspoon each of borax and salt in small tea cup of water. She said when the children come from school or a crowded house have them use it.—**Mrs. Miller.**

Asparagus and Fruit.—I am a new subscriber to the Fruit Grower. Myself and husband have always lived on a farm and raised stock and grain until 4 years ago. We have no children. Husband is 56 and I am 48. We have bought 15 acres inside city limits, has been a small fruit farm, but the berries are grown up to grass, there are a few peach and apple trees. The land is mostly seeded to clover. We have built a poultry house, 10 by 20 feet, and a barn, 30 by 24, with hip roof, to have room for hay, as husband is feeding 120 western lambs, so as to have plenty of fertilizer to enrich the soil. He buys all his feed. There is a berry shed also, that he has rigged into shape for a feeding stable for the sheep. We have one cow and twenty hens. Have been accustomed to poultry raising. There is quite a large quantity of asparagus that was grown up to weeds. We had it plowed very shallow last fall and have had several loads of manure drawn on it this winter. I cut this bed on shares last year for the owner on shares and found an excellent demand for it at 8 cents per bunch. This is a town of about 7,500 inhabitants and there are various fruit farms round about and truck farms also. Red raspberries sold at 10 cents per quart last season and strawberries at 12 to 8; for a few days they were down to 6 cents. The soil has a strata of gravel; below has many cobble stones. I think the upper soil is a loam with a very little sand. The front field about half is level, the other half is hilly. We live about a half a mile away. Now what sort of fruit or truck would you advise us to raise, considering our age and location, etc.? We are not much acquainted with commercial fertilizers. Would the sheep manure be all right for fruit and truck? Do you think asparagus a profitable crop? Should we cultivate this bed in the spring? There are quite a number of currant bushes grown up to grass, seemed small last year; would culture and fertilizer make them larger? Would like to get something out of the place next year to help pay expenses. We have city water on place.—
Enquirer, Mich.

Reply: I consider asparagus a profitable crop where there is a nearby market for it. Such an old grass-covered bed as you speak of can be renewed by covering the ground liberally with manure of any kind. If it is possible to cultivate shallow between the rows next spring I should do so, but if the cultivation disturbs many of the roots it would be better not to cultivate at all. Old currant bushes are not of much account. They are likely to be the Red Dutch, which cannot be made to grow large. I would plant Red Cross, which is more than double in size of Red Dutch and superior in every way, being sweeter and larger clusters. I send you Green's Six Books, in which you will find instructions for trimming grape vines.

I advise all of our friends who desire to make money without delay to plant the strawberry in preference to anything else, providing they have a reasonable market demand in their locality such as a village or a farming community. At Green's fruit farm we sometimes send loads of strawberries twenty-five miles by team to market. The strawberry is the poor man's friend, since they occupy but little room, bear enormous crops, yield fruit quickly after planting and are more easily marketed than most fruits.

Best Peach.—For a family peach Mr. Hale said the Champion is the best variety ever introduced. In fact, the white peaches, which are always of better quality, are preferred in many markets. They are thin skinned and hard to ship, yet can be shipped when handled carefully.

FREE Unitarian literature. Apply to Stella Boardman 126 Plymouth Ave., Rochester, New York.

Notes From the Nursery.

Written for Green's Fruit Grower By E. H. Burson, Superintendent.

February 10th—The mercury is still hanging around the zero mark. There is considerable snow in places in the nursery and main roads. Little damage has been done to nursery trees and nine-tenths of that done is caused by one of those unsightly crooked rail fences which should have been pulled down years ago. But this has been an unusual season. We never realized what trouble snow banks might cause.

Yes, a remarkable winter indeed. Old settlers say that the season of 1856-57 was as bad or worse, but aside from that they do not call to mind a winter that will compare with that of 1904.

Outside Nursery Work has been about out of the question a good deal of the time the past month. Still there has been some mulching done, strawberry beds in exposed situations have been covered, and currant stools covered up so that when heaving times come they will not be lifted out by frost.

The Regular Late Winter Pruning will soon have our attention. At this time all one year trees will be pruned to whips, as will all small two year trees that are intended to be held over for another season's growth. Fruiting currant bushes will be thinned out and last summer's growth shortened at least one-half. Raspberry patches will be gone over with large shears and put into shape, as will also blackberry rows. Then the peach orchard should have lots of attention. It is a profitable adjunct to the fruit farm. If the wood is injured with the severe weather the trees will be trimmed back more than usual. If the tree is apparently all right the past season's growth will be reduced from one-half to two-thirds and all injured or doubtful looking branches removed. As soon as pruning is done, or about the time the buds are pushing out, the trees will be thoroughly sprayed with the Bordeaux mixture.

All parties interested in the protection of the American Ginseng industry should send a 2-cent stamp to F. P. Hakes, secretary-treasurer of the National Ginseng Growers and Dealers' Association, at Cortland, N. Y., for a copy of the Constitution and By-Laws. It is the intention of the association to stamp out all fraudulent and foreign ginseng that now threatens to destroy the ginseng industry in this country.—
F. D. Crosley, President, Homer, N. Y.

If every man saved his time as he saves his money he would have money.

A GREAT CONVENIENCE FOR YOU



THE CRANK STAPLE PULLING FENCING PLIER—Something You Want.
It embraces nine tools in one—pillars, three wire cutters, hammer, staple puller, nail puller, splicer and stretcher. It is convenient in size and weight—at the same time heavy enough to strike a good blow. Have you torn your hands and clothes trying to break off a piece of wire because you did not have the cutter with you? You won't have to carry a belt full of tools or lose time going back for some other. Equipped with this plier you are prepared for any fencing work. Get one from your hardware man or ask him to show you sample. If he hasn't it send us \$1.10 and we will send it prepaid. If you want to know more about it before ordering, drop us a postal for an illustrated descriptive circular.
Cronk & Carrier Mfg. Co., Hardware Specialties, Elmira, N. Y.

"Best Fruit Paper in America."

That is what Prof. Blair, Ill. Exp. Station, says of THE FRUIT-GROWER, St. Joseph, Mo. The paper's 30,000 subscribers agree with this estimate. Illustrated, monthly, devoted entirely to fruit culture; articles by the most successful growers and best scientists. No one who has even one fruit tree can afford to be without it. It is "Handsomest farm paper in America."

SPECIAL OFFER

Regular price of The Fruit-Grower is 50c. a year. Send 25 cents and names of ten farmers who grow fruit, and you will receive the paper the first year for this amount. Special January number, 52 pages, cover in color, is worth more than \$1. Accept this special offer to-day, and your subscription can start with January. Only 1,000 copies of this special number are saved for this purpose. Send your subscription to-day before too late. Address

FRUIT GROWER CO., 301 S. Seventh, St. Joseph, Mo.

Green's Gift.

It is the best thing in the world for the baby to feed itself with. Our grandchild has one. No baby can get on well without it. What more attractive gift can you make your own baby or your grandchild? We will mail, prepaid, this heavily silver-plated spoon with gilt bowl as a premium to all who send us 50 cents for one year's subscription to

Green's Fruit Grower.

FITS

Permanently cured. No fits or nervousness after first day's use of Dr. Kline's Great Nerve Restorer. Send for FREE \$2.00 trial bottle and treatise.
DR. R. H. KLINE, Ltd., 931 Arch St., Philadelphia, Pa.

NEW FRUITS.

The Regal Grape, the Comet Currant, the Blowers Blackberry, the Kenoyer Blackberry, the Beaver Strawberry and a very large stock of **Gladiolus Bulbs**. Send postal for descriptions and prices.
M. CRAWFORD CO., Cuyahoga Falls, O.

\$1000 EGG, OR HOW MANDY FREE

PAID THE MORTGAGE FREE
a book that will help every poultry keeper solve all the problems and make poultry keeping pay. An account of actual experience, you ought to read. Free if you mention this paper. Geo. H. Lee Co., Omaha, Neb.

APPLE SEEDLINGS WANTED.

We desire to purchase 50,000 to 100,000 apple seedlings. Please let us know what sizes you have to offer and your price.

Green's Nursery Co., ROCHESTER, N. Y.

EVERGREENS

Hardy sorts, Nursery grown, for wind breaks, ornament and hedges. Propagated \$1 to \$10 per 100-50 Great Bargains to select from. Write at once for free Catalogue and Bargain Sheet. Local Agents wanted.
D. Hill, Evergreen, Dundee, Ill.
Please mention Green's Fruit Grower.

FIRE MODERN FIRE FIGHTER.

A dry powder chemical compound that blots out any flame. Write for catalogue. Agents wanted.

THE HOME CHEMICAL COMPANY, 107 Adams Street, Rochester, N. Y.

ATLANTIC PAINT COMPANY, WYOMING, PA.

MANUFACTURERS OF ROOF PAINT

This Paint is used on Shingle Roofs, Felt, Canvas, Tin, Iron, or Steel Roofs, Bridges, Fences, Smoke Stacks, Boiler Fronts, and Farm Implements. It is also just the paint to keep out Borers out of your fruit trees. It destroys Lice and Caterpillars. Farmers, we have this paint, you need it. Price, \$25.00 per bbl. (30 gallons). Address as above.

Compressed-Air Sprayers

Two and four gallon sizes. Brass faucets. For gardens, orchards, lawns, shrubbery, chicken-houses, etc. No continuous pumping. Compressed-air device sprays continually. Send \$1.50 for Sample. Big money for Agents. Address, E. W. SMITH & CO., Union N. Y., U. S. A., Dept. C.

LADIES

to do plain sewing at home. Steady work, \$9 per week. Materials sent everywhere free. For particulars send addressed envelope.

DU PONT DEPT. 588, Box 1382, PHILA., PA.

Our Fruit Packages Received World's-Columbian-Exposition Medal.

We want 100,000 new customers for berry boxes, peach, melon, and grape baskets. Thirty six years experience in manufacturing. Write for catalogue.

WELLS-HIGMAN CO.
St. Joseph, Mich.

THE WAY TO SPRAY

the highest fruit tree from the ground, without ladders or extension rods, is with

THE STANDARD SPRAY PUMP.

It throws spray with great force, and ten feet higher than any other pump, and is operated much easier.

It is made entirely of brass, the valves being brass balls in brass seats. No solution can affect it. Has no equal as a bucket sprayer; as a Barrel Outfit, one man does the work of two, and in less time. Cannot cause trouble.

Guaranteed by us for five years; will last a lifetime. Is always ready for use.

If you have read this far you are interested, and we want to tell you more about the Standard. A valuable spraying calendar free. Send dealer's name. Most dealers handle them. Made by

The Standard Stamping Company
MARYSVILLE, OHIO.

MISSOURI IMPROVED FARMS

PRODUCTION AND LOCATION FIX VALUE.

The best land in Missouri equals best in the Union. Will sell at a bargain, 800 acre corn, timothy, alfalfa and blue grass farm; \$30,000, common sense improvements, but almost all value in the land. It averaged 80 bu. corn to acre on 400 acres in 1903, and stood drouth of 4 months after planting in 1901 and made 40 bushels to acre; pay big interest.

FORTY ACRES WINTER APPLE ORCHARD.
50 selected peach trees, 50 pear trees, 80 grape vines and small fruit. Postal brings price, terms and description. Many fancy farms—money makers.

J. H. LIPSCOMB,
621 NELSON BLDG. KANSAS CITY, MO.
W. Wyandotte, B. P. Rock, Stock, \$1.50 each, Eggs, 15, \$1.00
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LADY AGENTS WANTED.
Active, reliable lady agents to sell our perfect fitting, custom-made petticoats. Excellent returns. Address, Parisian Co., Box 3748, Boston, Mass.

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For botts, guaranteed. One treatment 50c, or three treatments for \$1. Mailed to any address. Money refunded if treatment fails. For information, apply to
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515 to 525 a week selling our beautiful pictures. Agents wanted everywhere. Send 15c. for sample picture and illustrated catalogue.
BREEN & DICKERSON,
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100 FINE SILK PIECES
Extra large size, lovely colors for fancy work, only 15 cents postpaid, a lot for 25 cents. Money refunded if not as represented. Address:
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BEFORE BUYING A NEW HARNESS
Send 4 cents postage for Illustrated Catalog with full description and prices to consumer.
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AGENTS WANTED. Sell our \$1 bottle Sarsaparilla for 35 cents, best seller 200 per cent. profit. Write to-day for terms and territory.
F. R. GREENE, 50 DEARBORN ST., CHICAGO.



We offer a superior quality of Grafting Wax in packages of one-half pound, or one pound, by mail, postpaid, at

25c. FOR HALF POUND AND 40c. FOR POUND PACKAGES.

By express we can sell this Grafting Wax at 25c. per pound. Remember that postage costs us 16c. per pound. Address

GREEN'S NURSERY CO.,
ROCHESTER, N. Y.

The Ohio Carriage Mfg. Co., Cincinnati, Ohio, H. C. Phelps, President, desires to announce to our readers that the new and attractive 1904 catalogue of Split Hickory Vehicles and Harness is now ready for free distribution, and will be promptly sent, prepaid, to all who request it.

As is well known to most of our readers, many of them regular customers of this great buggy concern, the Ohio Carriage Mfg. Co. is the sole manufacturer of the Split Hickory line of vehicles, all of which they sell direct to the user at factory price, affording a great saving over other methods.

The catalogue is a work of art and its contents are complete and authoritative. It lays special stress, very properly, upon the 1904 Split Hickory Special Top Buggy, priced at \$60, the wonder and pride of the buggy user, the envy of buggy makers universally.

This Split Hickory Special has one hundred points of merit. These points comprise every late feature known in the manufacture of a strictly high-grade buggy. This special and a full line of Split Hickory vehicles you will find fully described in this 1904 catalogue. Send for it and be sure your letter is addressed to Ohio Carriage Mfg. Co., 8 Sixth street, Cincinnati, O.



Peaches Are An Attractive and Profitable Crop.

Written for Green's Fruit Grower.

Perhaps there is no other fruit so attractive in the market as fine peaches. I never saw a person yet who did not like peaches, but I have seen people who did not like strawberries or oranges. Peaches are remarkably wholesome. There seems to be no limit to the number of ripe peaches that a person can eat with impunity. Twenty years ago peach growing in Western New York and other points in the same latitude was thought to be impossible, but more recently peaches have been largely planted in Western New York, Connecticut, Michigan and even farther North. Peach growing over the country at large is now assuming vast proportions. Mr. Hale, of Connecticut has thousands of acres devoted to peaches.

Peach Culture.—The same pruning and culture desired for apples or pears would not be suitable for peach trees. The peach orchard should be planted by itself. Peach trees should not be mingled with apple trees or other fruit trees. Do not plant the trees too closely together, unless you expect to cut out every other tree when they get larger. Select an elevated site for the orchard; the hilltops are far better than level ground or the level; the soil may be sandy, gravelly or a friable clay loam. After planting keep the soil well cultivated through all the growing season. Half of each season's growth should be removed by pruning each spring. This rule of pruning does not apply to any other tree but the peach, which has a tendency to spread out too far. By cutting off half the wood you thin out a portion of the fruit buds and this is desirable since peaches almost invariably overbear.

Varieties.—There are two varieties of the peach which are attracting particular attention. Those are the Niagara and the Elberta. Niagara is similar to Elberta, but a week earlier and a larger peach, of better quality than Elberta. Elberta is a marvel in the way of peaches. I saw the original tree growing at Samuel Rumps, in Georgia, near the Hale peach orchard. He planted twelve acres of seedling peach trees and this one tree of Elberta was the only one he preserved of thousands. Elberta has been worth millions of dollars to this country. It is a large yellow peach, ships well and is in many respects a desirable market peach; its quality, however, is not equal to the best Crawford's. Crawford Early, Crawford Late, Champion, Fitzgerald and Crosby are valuable varieties, worthy of a place in each peach orchard.



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Look Better, Wear Longer and Cost Less Than the Best White Lead Paint.

Fifty Sample Colors and Illustrated Booklet to Any Address Absolutely Free.

The cost of painting is a heavy burden. Cheap paints soon fade, peel or scale off and white lead and oil costs so much and has to be replaced so often that it is a constant expense to keep the bright, clean appearance so desirable in the cosy cottage home or the elegant mansion.

CARRARA PAINT is increasing in popularity and use at an enormous rate. Last year over one million gallons were used in this country, and over fifty thousand houses were covered with it. The buildings and magnificent hotels of our largest cities, the palaces of our millionaires and cottages of our workmen, the farm houses, barns, store buildings, factories, mills, elevators, warehouses, machine shops, depots and roundhouses are being painted every day throughout the length and breadth of the land with CARRARA PAINT because it has proven best. You can use CARRARA with a feeling of security that it has stood the test and has given satisfaction in all places where paint is used. Its universal popularity with all people and the satisfactory service it has given on all classes of buildings give you positive assurance that you are getting the best and cheapest when you buy CARRARA.

There is but one CARRARA. It is made by the Carrara Paint Agency, 104 Carrara Bldg., Cincinnati, Ohio. Anyone having anything to paint should send for fifty free sample colors and our handsome, illustrated booklet, showing many buildings reproduced in all the colors just as they are painted with this great paint. Distributing depots in all principal cities. Write to-day telling us what you have to paint and we will show you how to beautify your property and save half your paint bills in the future.



FREE GOLD WATCH

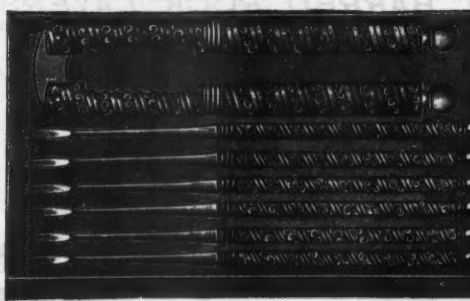
This watch has SOLID GOLD LAIN ENGRAVED CASE, AMERICAN MOVEMENT, fully warranted to keep correct time equal to appearance to SOLID GOLD WATCH guaranteed 10 years. We give it ABSOLUTELY FREE to boys and girls or anyone willing to do 10 pieces of any household jewelry as 10c each. Send your address and we will send jewelry postpaid; when sold, send us \$1 and we will positively send you the WATCH and CHAIN.
LIBERTY JEWEL CO., Dept. 640 CHICAGO

Garden Huckleberry.

This is the coming fruit for home and market, will out-yield any other small fruit; good as the best. Will not rot or drop off the bushes. Grows from seed and ripens fruit the same year. Will keep for a month after being picked. Can be stored and sold all winter. It's a bonanza for the fruit grower. Seed 25c. enough to grow 25 bushels. **A. WILDER, RANDALL, IOWA.**
Please mention Green's Fruit Grower.

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This is both a useful and an elegant premium. The set consists of a handsome and strong nut crack and six nut picks, all enclosed in a neat box, as shown in the illustration. Both the nut crack and the nut picks are **NICKEL-PLATED**. The material used in the manufacture of both of these articles is the finest steel. The handles of the nut picks are made in a pretty design, while the points are highly polished. The nut crack is of a design corresponding to the nut picks and is made for good strong service. This complete set given to all who send us \$1.00 for our paper one year and 10c. additional if they claim this premium when subscribing. Send 60c. for paper and complete set. Sent prepaid.
Address,
Green's Fruit Grower,
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HAMMOND'S NORTHERN GROWN SEED POTATOES

50c SEED FREE
Send us to-day, your name and address on a postal and we will mail you FREE our handsome Illustrated Seed Catalog containing the full and plan good for 50c worth of Flower or Vegetable Seeds FREE. Your selection to introduce

The Best Northern Grown Seeds
direct from grower to planter, from Saginaw Valley Seed Gardens. Seed Potatoes, Vegetables, Flowers, Field Seeds and Plants.

100,000 PACKAGES SEEDS FREE
on above plan. Write quick. Send names of neighbors who buy seeds. \$1.00 cash for best list. See the catalogue.
Harry N. Hammond Seed Co., Ltd.,
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Seed Corn

\$1.00 bu. and up.
Michigan Northern Grown is the earliest and produces largest crops. Hammond's Sixty Day Fifty, American Pride, Rose Haze Dent and Thoroughbred White Seed are the 4 famous varieties today. A more lean Pride made 107 bu. shelled corn per acre. 100-page catalog fully describing these wonderful corns sent on request. **HARRY N. HAMMOND SEED CO., LTD.,**
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55c a bu. and up.
The cleanest, healthiest, best yielding oats are Michigan Northern Grown. Hammond's Morgan-Patterson, Hammond's English Wonder, Oats of Russia and Michigan Wonder, the four best varieties. Best proof, still straw, have yielded 220 bu. per acre. Oats 10c describing these oats and all other farm seeds free on request. **HARRY N. HAMMOND SEED CO., LTD.,**
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FARM AND GARDEN SEEDS LEAD ALL.

\$1000 PER ACRE

Hammond's Sensation Potato

Produced \$1000.00 per acre last year. The EARLIEST POTATO IN THE WORLD. Most delicious in quality, heaviest yielder known. Ready for market in six weeks. Elegant 100-page Bargain Seed Catalog Free. **HARRY N. HAMMOND SEED CO., LTD.,**
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in vigor, yield, earliness and quality. Better cannot be had. Prices very low. We can save you money. Northern Grown always the BEST. Our handsome 100-page catalog of Garden, Field and Flower Seeds mailed free on request.
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HAMMOND'S

Michigan Northern Grown Onion Seed.
45 cents a pound and up.
We sold 75,000 lbs. of this seed in 1903. Our customers report yields of 450 to 2,500 bushels of onions per acre from this seed. Some of them estimate that this seed is worth \$6 to \$10 per lb. more than the California grown seed sold by anybody. We guarantee the seed to be pure and freshly grown. We have seed of all the leading and standard varieties. We make special prices on large lots. Onion sets of all varieties. Buy direct from the growers. Catalogue extended and illustrated—free.
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Cabbage Seed that Grows

There is no doubt or disappointment when you see Hammond's Improved Early Jersey Wakefield. Undoubtedly the purest and earliest strain known. The result of years of careful selection, both for earliness and perfect heads. Especially valuable to market gardeners. Hammond's Danish Ballhead. A sure header of large, compact heads. Our seed imported direct from R. Wilhelms, Denmark. Guaranteed absolutely true to name. See catalogue for cash prices. Catalogue Free.
Harry N. Hammond Seed Co., Ltd.,
Box 59, BAY CITY, MICH.

Mysterious Power Over Disease

Wonderful and Miraculous Cures Performed by a Mighty Healer.

At Last There Seems to Have Been Discovered the Secret of Long Life and Perfect Health.

(From Hearst's Chicago American.)

FORT WAYNE, IND., (Special Correspondent). In response to numerous requests your correspondent called on the now famous Dr. James W. Kidd, to learn, if possible, the secret of the mysterious power by which he was effecting so many wonderful cures. Dr. Kidd was found at his office busily engaged in answering the hundreds of letters of inquiry which he is daily receiving from all over the world regarding his remarkable discovery.

"It is hardly necessary to say that I am busy," said the doctor. "In those files are thirty-five thousand letters that were received and answered last month, but I am always willing to explain, as far as possible, my discovery, especially to newspaper men, because I know that they will publish the information, and I want the whole world to know that there has at last been discovered a remedy which will cure every ailment."

Will it cure every case?
"It will cure every disease that I have been called upon to treat in my experience in thousands of cases, and has positively cured thousands of afflicted people who thought that they were beyond all earthly help."

What do you call your discovery?
"The Elixir of Life." Dr. Kidd here showed the correspondent a number of small egg-shaped capsules containing various colored liquids in which floated small tablets, and said: "Doctors have known and used nearly all the remedies which constitute my discovery for years, but the proportions and the method of compounding are my secret."

Do the doctors accept or use your discovery? was next asked.
"Not as a rule, because I do not care to explain or give my secret to them. It is the result of a lifetime of study and experiment and naturally I am jealous of the honor which it brings me."

Do your patients seem to appreciate what you do for them?
"Yes, indeed. In this set of letter files are thousands of letters from grateful cured patients, and I am receiving more every day. They are the greatest source of pleasure and satisfaction to me, and the only pay that I ask for the years of study that this discovery cost me. Here are a few which are particularly interesting to me, because they are patients whom I cured two years ago, when I first made my discovery, and before I was as sure of the results as I am now. They are all enjoying perfect health now. You may publish as many of them as you like, as I have their permission."

Your correspondent copied the following extracts word for word, from a few. The following from Miss Sarah Penington, Milton, Iowa, tells a thrilling story of her cure: "It does not seem possible that a person paralyzed as I was could be cured in 18 days. When you got the statement of my case, I was perfectly helpless, had to have a friend write to you in my name. Now I feel that I am cured. I will always praise and thank Dr. Kidd for what he has done for me. You cured me when others had given me up to the grave."

A. C. Blair, a prominent attorney of the firm of Blair and Green, Charleston, W. Va., writes as follows: "I received your treatment for nervousness, indigestion, stomach, kidney and bladder trouble, twenty days ago. It is truly 'The Elixir of Life.' I am agreeably surprised at the wonderful result. I have suffered for more than five years and was getting worse all the time. I have improved daily since beginning your treatment. I now feel ten years younger. Instead of having to pull myself up the court house steps by the railing I now run up as I did ten years ago." Ten days later Mr. Blair reports as follows: "I am restored to perfect health, sleep well, eat hearty, digestion good, kidneys and back cured, nerves in fine shape."

Your correspondent was shown hundreds of other testimonials telling of miraculous cures of apparently every disease with which man or woman was ever afflicted, and was firmly convinced that Dr. Kidd is only too modest in his claims for his marvelous discovery.

Can your 'Elixir of Life' be used by patients at home?
"Yes, with my instructions, and with equally as good results." Is it true that you are giving away treatments to all applicants?
"Yes, and I expect to continue until its virtue is known all over the world. You can tell your readers that I will send every sick or afflicted person a course of treatment prepaid especially for their case by mail postage paid and absolutely free. To be sure of personal attention ask them to describe their case and address my private office as follows: Dr. James W. Kidd, 721 Baltes Block, Fort Wayne, Ind."

As the doctor asks for no money, it would seem that every reader afflicted in any way, no matter what the disease, should take advantage of this liberal offer.

Monahan's Farming Experience.

February the 1st on the Monahan farm was a busy and exciting day. Peddlers, agents and canvassers came in droves. Word had been passed down the line that Monahan was an easy mark. The first caller was an incubator salesman. He told Monahan that the sample he was carrying with him was the one that took first prize at the Chicago World's fair, and Monahan bought the sample for \$250 cash. The next caller was a subscription agent. Monahan subscribed for one fruit journal, three farm journals, two poultry journals, one flower journal, two household magazines, three ladies' home magazines, two weekly and three daily newspapers. He was bound to learn how to farm, raise poultry and become a fruit grower, and at the same time he was going to see that no one on the Monahan "plantation" got lonesome for lack of reading matter. The subscription had hardly left the premises when a pair of silver-tongued lightning-rod agents drove up and proceeded to show Monahan the dangers of living in an unprotected house. They immediately went to work putting up the rods, as Monahan was easily persuaded to sign the contract, which read:

"Please erect, at your earliest convenience, your lightning rods on my house and barn, according to your rates, for which I agree to pay you seven cents per foot; \$3 for each point; \$4 for each vane; \$5 for each arrow; \$1 for each ball or brace. Cash when furnished."

When the job was finished Monahan was presented with the bill, which read: "300 ft. rods, 20 points, 20 vanes, 20 arrows, 20 balls and 16 braces." A total of \$297.

This caused an argument, as Monahan thought the bill would not be over \$20. The whole family took a hand in the dispute and several neighbors were called in. The bill was compromised by Monahan paying \$250 cash. He immediately erected a large sign in front of the gate, which read,—"No Peddlers, Canvassers or Agents allowed on these Premises."

The next morning Monahan arose early and after breakfast he made a tour of the farm with two market baskets, and collected all the eggs and China nest eggs to be found. He piled them in the prize incubator and turned on the heat. After dinner he went across the road, climbed upon the fence, and sat there all afternoon admiring his house, barn and farm.

The entire day spent by Monahan in counting the old apple, peach, pear and plum trees on the place. It was 6 o'clock when his task was finished and he wended his way back to the house. When he entered the dining room he was startled and surprised; in fact he almost fainted. The one woman in the world whom he hated stood before him. It was his mother-in-law. She gave him the "glad hand" with a sarcastic smile, and said,—"Nice place you have here, I believe I will make my home with you after this." Monahan could not say a word. His speech had left him and visions of the lower regions flitted across his brain. He had left Chicago purposely to get as far away as possible from his mother-in-law's influence, and now she has followed him and intends spending the remainder of her days under his roof, owing to the death of her second husband, which left her dependent and penniless.

All that night Monahan had the nightmare. At ten-minute intervals he died his mother-in-law, but only in his dream. Next morning he was surly. Mrs. Monahan noticed this and began to jolly him. She said, "Take mother over the farm this morning and show her what a bargain you got in the place." This pacified matters temporarily; and at 9 o'clock the incubator was being inspected by the only woman who could make Monahan turn pale, shiver and eat his own words. When told about the incubator taking first prize at the World's fair she gave him the ha ha and hissed "Sucker!" She said she knew at least ten men in Illinois who thought they owned the prize winner and the gag was getting stale. This line of talk gave Monahan the toothache, and the pair returned to the house, postponing further inspection until a later day. That night it was discovered that the eggs in the incubator had been cooked to a crisp.

Next day the mother-in-law was ransacking the garret, and she found wall paper enough to paper every room in the house. She ordered Monahan to get busy. He did, and, with Rastus's assistance, every room in the house was papered inside of two days. The paper was plain white with small flowers about one foot apart.

Next day, being Sunday, Monahan was ordered to take the entire family to church, and the order was obeyed. When they returned from church it was discovered that the house had been robbed, and Monahan opened fire on the mother-in-law. The battle raged all that afternoon. The children took sides, and things looked like a divorce case. The mother-in-law called all bluffs and before bed-time was in complete control of the situation.

Next day Monahan started in to figure how much his profits were going to be the first year. He had one thousand old apple trees in bearing. He figured four bushels to the tree, and \$1 a bushel he would net \$4,000 a year on apples alone, peaches figured about the same, while pears and plums only figured half as well. He would have to be contented with \$12,000 a year from fruit until his new trees began to bear. He figured his incubator would hatch 250 chickens every three weeks, or 4,250 a year, at 50 cents each; total \$2,125; other poultry the same. Butter, melons, grain and other sources ought to bring him enough to swell the total to \$25,000 a year clean profit.

To be Continued.

"Everybody ought to know," says the Family Doctor, "that the very best thing they can do is to eat apples just before retiring for the night. The apple is an excellent brain food, because it has more phosphoric acid in easily digested shape than any other fruit. It excites the action of the liver, promotes sound and healthful sleep, thoroughly disinfects the mouth, and prevents indigestion and throat diseases."

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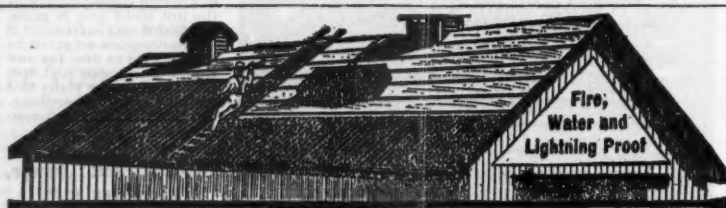
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